SERVICE MANUAL

RA-1 CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.
KP-41T25	RM-Y121	US	SCC-H53L-A
KP-41T25	RM-Y121	Canadian	SCC-H58H-A
KP-46S25	RM-Y118	US	SCC-H53J-A
KP-53S25	RM-Y118	US	SCC-H53K-A

MODEL	COMMANDER	DEST.	CHASSIS NO.
KP-46S17	RM-Y121	Canadian	SCC-H58J-A
KP-53S17	RM-Y121	Canadian	SCC-H58K-A

Note :

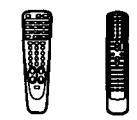
1.This servce manual handles differences from KP-41T15/46 S15/53S15(RA-1 Chassis)service manual only.
Please use this service manual together with that of KP-41 T15/46S15/53S15(RA-1 Chassis).

KP-41T15/46S15/53S15(RA-1 Chassis)service manual
Part No.

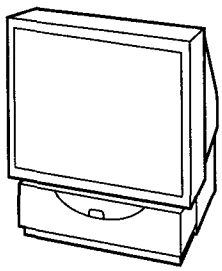
	Service manual	Adjustment Manual
Part No.	9-965-042-01	9-965-043-01

2. Adjustment Manual for this model is separately published.

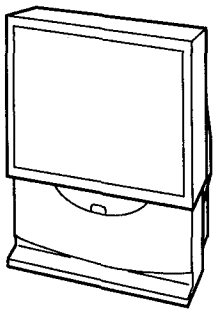
	Adjustment Manual
Part No.	9-965-101-11



RM-Y121 RM-Y118



KP-41T25



KP-46S25/53S25

MICROFILM

TRINITRON® COLOR TV

SONY®

※ Please file according to model size. ..... ■

41 | 46 | 53

SPECIFICATIONS

Projection system	3 picture tubes, 3 lenses, horizontal in-line system
Picture tube	7 inch high-brightness monochrome tubes (6.3 rester size), with optical coupling and liquid cooling system
Projection lenses	High performance, large-diameter hybrid lens F1.0

Screen size (measured diagonally)

KP-41T25	41 inches
KP-46S17	46 inches
KP-53S17	53 inches
KP-46S25	46 inches
KP-53S25	53 inches

Screen brightness

KP-41T25	1900 cd/m^2
KP-46S17	1500 cd/m^2
KP-53S17	1200 cd/m^2
KP-46S25	1500 cd/m^2
KP-53S25	1200 cd/m^2

Television system	American TV standards
Channel coverage	VHF : 2-13 / UHF : 14-69 / CATV : 1-125
Antenna	75 ohm external antenna terminal for VHF/UHF
Inputs/output	VIDEO IN 1 S VIDEO IN (4-pin mini DIN) : Y : 1 Vp-p, 75-ohms unbalanced, sync negative C : 0.286 Vp-p (Burst signal) 75 ohms VIDEO (phone jack) : 1 Vp-p, 75-ohms unbalanced, sync negative AUDIO (phone jacks) : 500 mVrms (100% modulation) Impedance : 47 kilohms VIDEO INPUT 2 and VIDEO IN 3 VIDEO (phone jacks) : 1 Vp-p, 75-ohms unbalanced, sync negative AUDIO (phone jacks) : 500 mVrms (100% modulation) Impedance : 47 kilohms MONITOR OUT VIDEO (phone jack) : 1 Vp-p, 75-ohms unbalanced, sync negative AUDIO (phone jacks) : 500 mVrms (100% modulation) Impedance : 10 kilohms AUDIO OUT (phono jacks) : 900 mVrms (100% modulation) Impedance : 5 kilohms
Speaker	Full range speaker 100 mm (3.9 inches) diameter
Speaker output	10 W x 2
Power requirement	120 V, 60 Hz
Power consumption	220 W Standby mode : 4 W

	Dimensions (W/H/D)	Mass
KP-41T25	951 x 1,000 x 588 mm (37 1/2 x 39 3/8 x 23 1/4 inches)	53 kg (116 lbs 1 oz)
KP-46S17	1,066 x 1,306 x 543 mm (42 x 51 1/2 x 21 1/2 inches)	70 kg (154 lbs 5 oz)
KP-53S17	1,218 x 1,413 x 594 mm (48 x 55 3/4 x 23 1/2 inches)	75 kg (165 lbs 6 oz)
KP-46S25	1,066 x 1,306 x 543 mm (42 x 51 1/2 x 21 1/2 inches)	70 kg (154 lbs 5 oz)
KP-53S25	1,218 x 1,413 x 594 mm (48 x 55 3/4 x 23 1/2 inches)	75 kg (165 lbs 6oz)

Supplied accessories: Remote commander RM-Y121 (1)(For KP-41T25,46S17/53S17)
RM-Y118 (1)(For KP-46S25,53S25)
Size AA (R6) battery (1)

Optional accessories:
U/V mixer EAC-66
Connecting cables RK-74A, VMC-810S/820S, YC-15V/30V, VMC-720M
Video tray SU-PJT2 (For KP-46S17, KP-53S17,KP-46S25,KP-53S25)
Stand SU-41T1 (For KP-41T25)
High - contrast protective screen
SCN-41X1 (For KP-41T25)
SCN-46X1 (For KP-46S17,KP-46S25)
SCN-53X1 (For KP-53S17,KP-53S25)

Design and specifications are subject to change without notice.

SAFETY CHECK-OUT

(US model only)

After correcting the original service problem, perfom the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recom mend their replacement.
6 Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any). Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate;be suspicious of your HV meter if sets always have low HV.
9. Check the antenna temminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microampers) . Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to usc these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground;the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

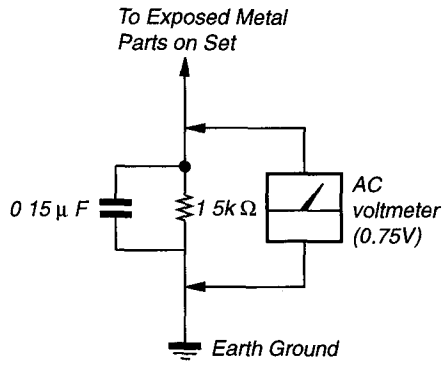


Fig. A. Using an AC voltmeter to check AC leakage.

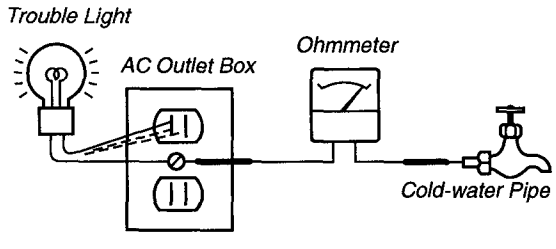


Fig. B. Checking for earth ground.

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(CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESEC-OMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFEOPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

(ATTENTION)

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURTCIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE *OU AU BLINDAGE DU TUBE CATHODIQUE.*

ATTENTION!!

AFIN D'EVITER TOUT RISQUE DELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DEPANNAGE. LE CHÁSSIS DE CE RECEPTEUR EST DIRECTEMENT RACCORDÉ Á L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS ÁLA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MAPQUE ⚠ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES CONT D'UNEIMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

SECTION 2
DISASSEMBLY

The operation instruction mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remein as in the manual.(part no: 3-856-233-11)

Welcome!

Thank you for purchasing the Sony Color Rear Video Projection TV. Here are some of the features you will enjoy with your projection TV:

- AUTO SET UP feature that allows you to set up your projection TV easily by pressing the SET UP button
- On screen menus that let you set the picture quality, sound, and other settings
- Picture-in-Picture that allows you to watch another TV channel, video or cable image as a window picture
- On/off timer that allows you to make the TV program of your choice be displayed on the screen for a specified duration
- Dynamic Focus circuitry that automatically focuses the scanning electron beam for enhanced sharpness, especially at the corners
- Universal remote commander supplied that allows you to operate Sony and other manufacturers' video equipment

About this manual

The instructions in this manual are for models KP-41T25, KP-46S17 and KP-53S17. Before you start reading this manual, please check your model number, located at the rear of the projection TV. Model KP-46S17 is used for illustration purposes in this manual. Model KP-41T25 incorporates two tuners that enable you to operate PIP feature without connecting a VCR. Models KP-46S17 and KP-53S17 incorporate one tuner. These models must be connected to a VCR to enjoy PIP. The differences in specifications are indicated in the text.

Instructions in this manual are based on use of the remote commander. You can also use the controls on the projection TV if they have the same name as those on the remote commander.

Precautions

This projection TV operates on extremely high voltage. To prevent fire or electric shock, please follow the precautions below.

Safety

- Operate the projection TV only on 120 V AC.
- One blade of the plug is wider than the other for safety purposes and will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- Should any liquid or solid object fall into the cabinet, unplug the projection TV and have it checked by qualified personnel before operating it further.
- Unplug the projection TV from the wall outlet if you are not going to use it for several days or more. To disconnect the cord, pull it out by the plug. Never pull the cord itself.

For details concerning safety precautions, see the supplied leaflet "IMPORTANT SAFEGUARDS."

Note on cleaning

Clean the cabinet of the projection TV with a dry soft cloth. To remove dust from the screen, wipe it gently with a soft cloth using vertical strokes only. Stubborn stains may be removed with a cloth slightly dampened with solution of mild soap and warm water. Never use strong solvents such as thinner or benzine for cleaning. If the picture becomes dark after using the projection TV for a long period of time, it may be necessary to clean the inside of the projection TV. Consult qualified service personnel.

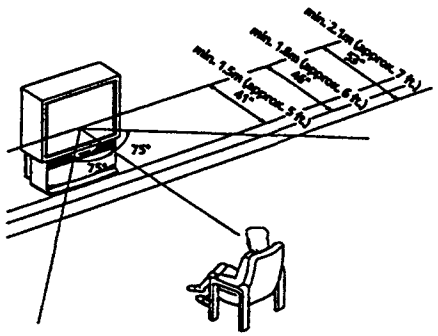
Installing

- To prevent internal heat build-up, do not block the ventilation openings.
- Do not install the projection TV in a hot or humid place, or in a place subject to excessive dust or mechanical vibration.
- Avoid operating the projection TV at temperatures below 5°C (41°F).
- If the projection TV is transported directly from a cold to a warm location, or if the room temperature has changed suddenly, the picture may be blurred or show poor color. This is because moisture has condensed on the mirror or lenses inside. If this happens, let the moisture evaporate before using the projection TV.
- To obtain the best picture, do not expose the screen to direct illumination or direct sunlight. It is recommended to use spot lighting directed down from the ceiling or to cover the windows that face the screen with opaque drapery. It is desirable to install the projection TV in a room where the floor and walls are not of reflecting material. If necessary, cover them with dark carpeting or wall paper.

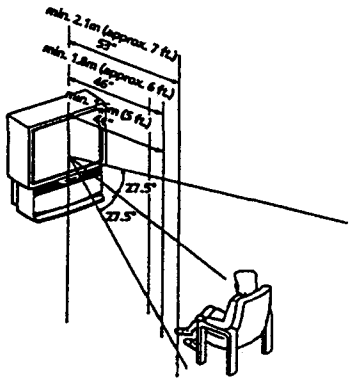
Step 1: Installing the projection TV

For the best picture quality, install the projection TV within the areas shown below.

Optimum viewing area (Horizontal)

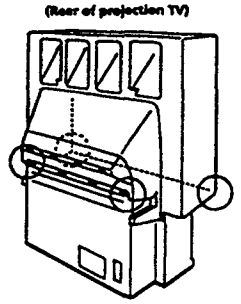


Optimum viewing area (Vertical)



Carrying your projection TV

Be sure to grasp the portions indicated when carrying the projection TV, and to use more than two people.



Preparing for your projection TV

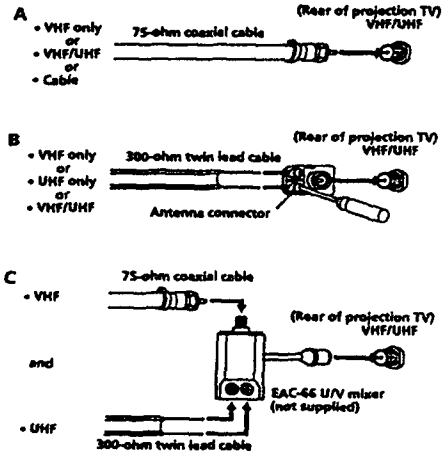
Before you use your projection TV, adjust convergence. For the procedure, see "Step 4: Setting up the projection TV automatically (AUTO SET UP)" on page 18.

Step 2: Connections

Although you can use either an indoor antenna or outdoor antenna with your projection TV, we recommend connecting to an outdoor antenna or a cable TV system for improved picture quality.

To an antenna

Connect your antenna cable to the VHF/UHF antenna terminal. If you cannot connect your antenna cable directly to the terminal, follow one of the instructions below depending on your cable type.

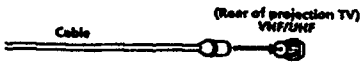


Notes

- Most VHF/UHF combination antennas have a signal splitter. Remove the splitter before attaching the appropriate connector.
- If you use the U/V mixer, snow and noise may appear in the picture when viewing cable TV channels over 37(W+1).

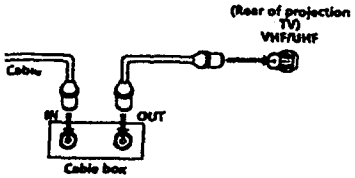
Connecting an antenna/cable TV system without a VCR

To cable or antenna

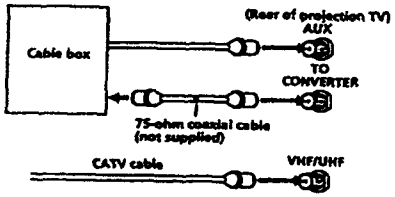


To cable box

If your cable company requires you to connect a cable box, make the connection as follows:



To cable box and cable (KP-41T25 only)



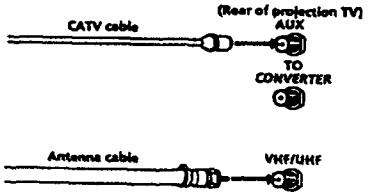
Pay cable TV systems use scrambled or encoded signals requiring the cable box* in addition to the normal cable connection.

* The cable box will be supplied by the cable company.

Note

- You cannot watch the signal through AUX connector as a window picture.

To cable and antenna (KP-41T25 only)



Note

- Do not connect anything to the TO CONVERTER connector in this case.

Connecting an antenna/cable TV system with a VCR

For details on connection, see the instruction manual of your VCR. For KP-46S17/53S17, a VCR must be connected to your TV to watch two TV channels at one time (PIP feature).

Before connecting, disconnect the AC power cords of the equipment to be connected.

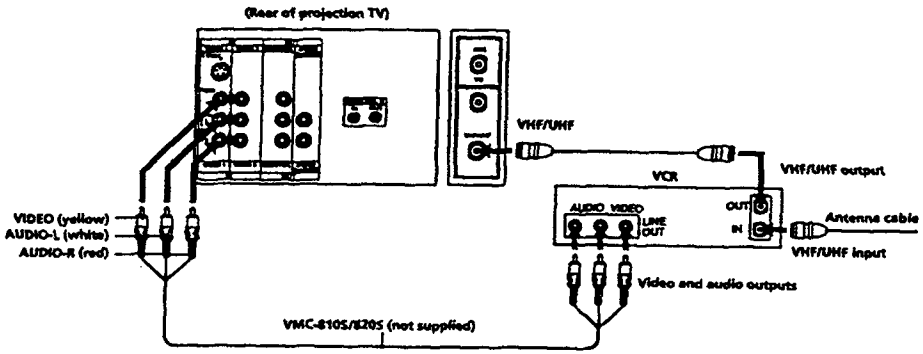
After making these connections, you will be able to do the following:

- View the playback of video tapes
- Record one TV program while viewing another program
- Watch two TV programs at one time using a window picture (Picture-in-Picture)

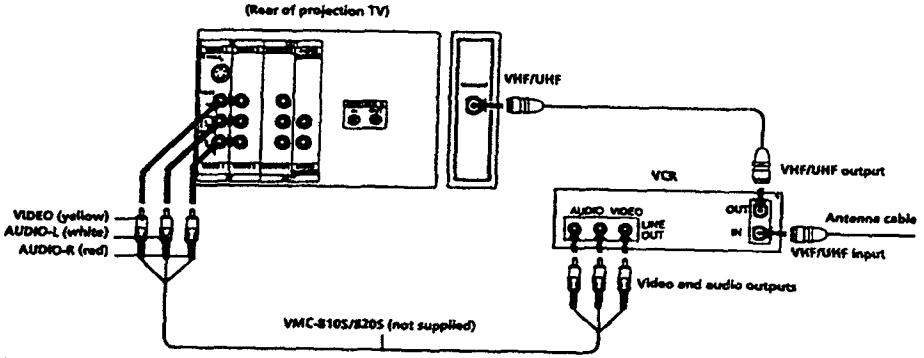
To a conventional VCR

Without a cable box

■ *KP-41T25*



■ *KP-46S17/53S17*

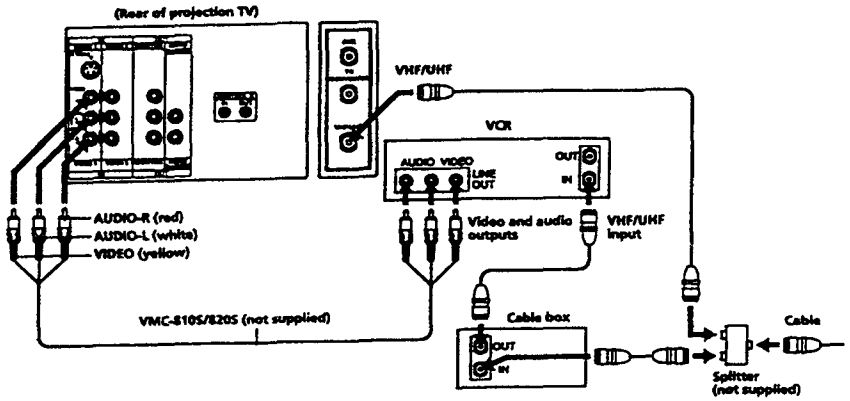


Notes

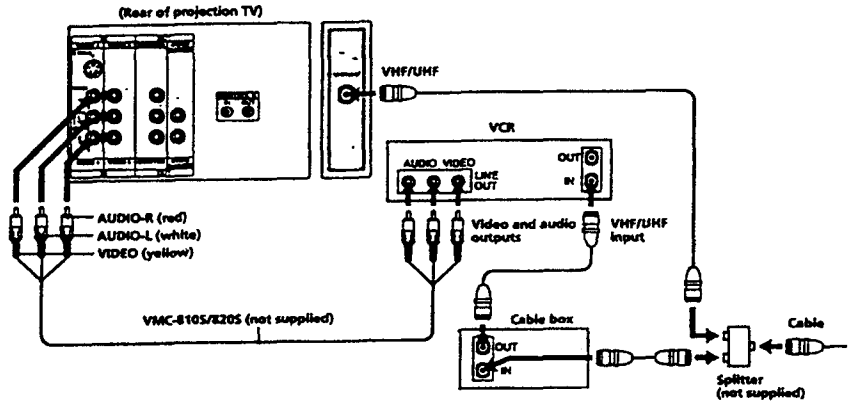
- To connect a monaural VCR, connect the audio output of the VCR to AUDIO-L (MONO) of VIDEO 1/3 IN on the projection TV.
- Do not connect the cable to the S VIDEO connector on the projection TV.

With a cable box

■ *KP-41T2S*



■ *KP-46S17/53S17*

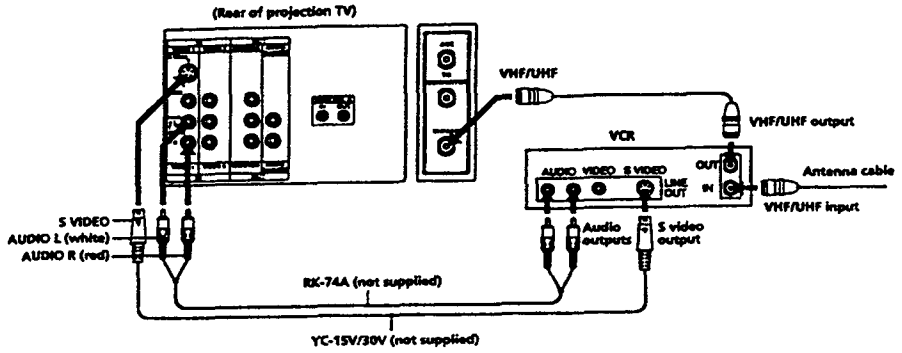


To an S video equipped VCR

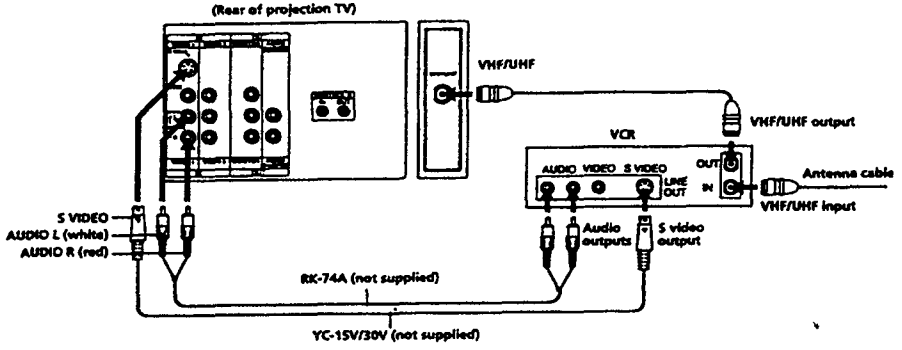
If your VCR has an S video output jack, make the connection as follows.
Whenever you connect the cable to the S VIDEO connector, the projection TV automatically receives S video signals.

Without a cable box

■ *KP-41T2S*



■ *KP-46S17/53S17*

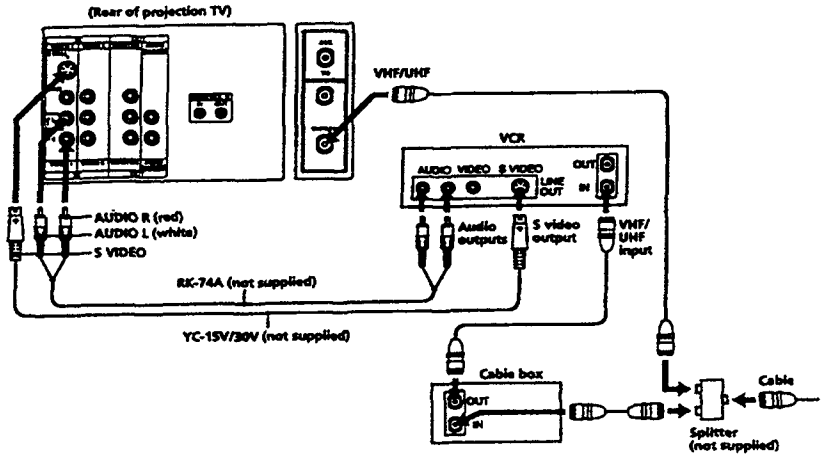


Note

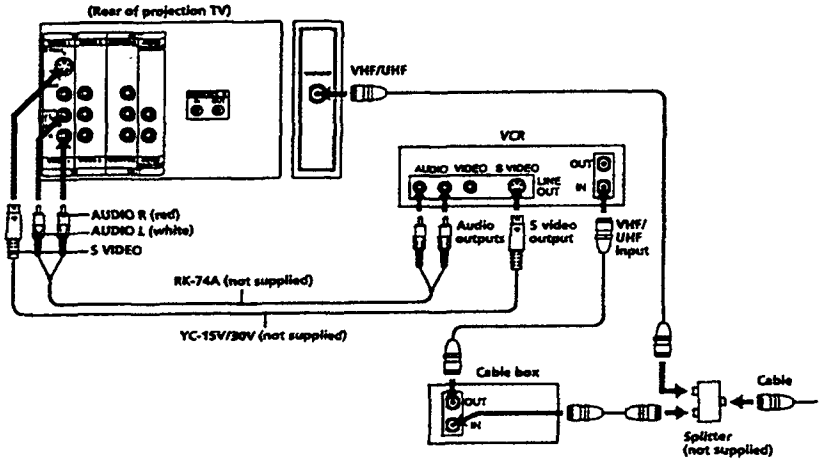
- Video signals are composed of Y (luminance) and C (chroma) signals. The S connection sends the two signals separately preventing degradation, and gives better picture quality compared to conventional connection.

With a cable box

■ *KP-41T25*



■ *KP-46S17/53S17*

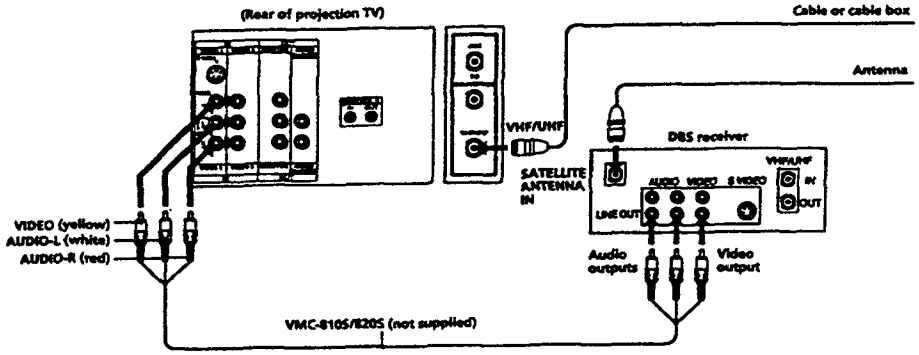


Connecting a DBS receiver

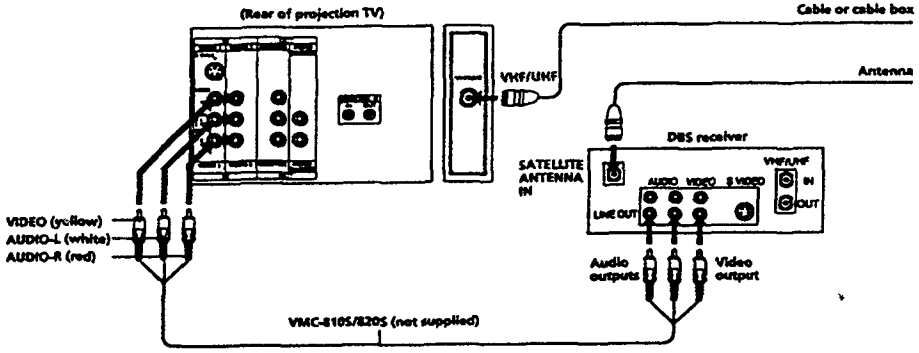
For connection details, see the instruction manual of the DBS (Digital Broadcasting Satellites) receiver.

To a TV

■ *KP-41T25*



■ *KP-46S17/53S17*

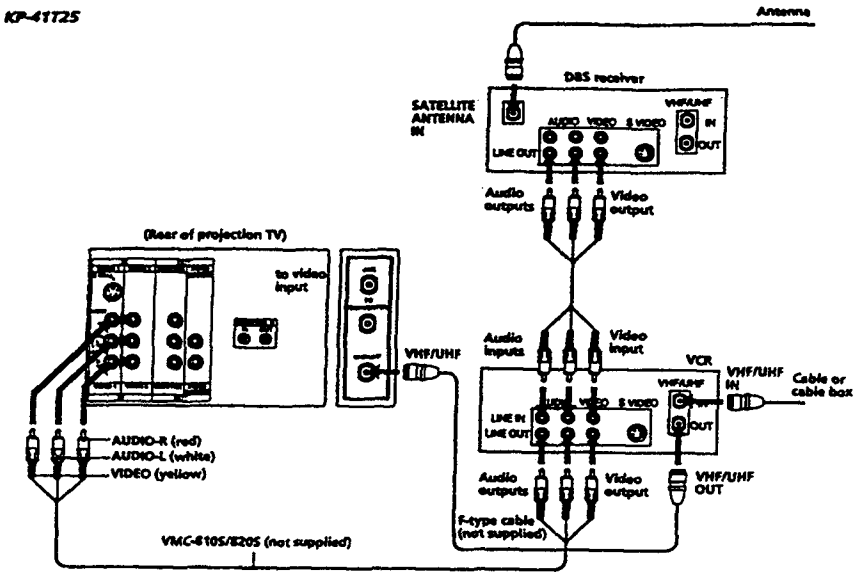


Note

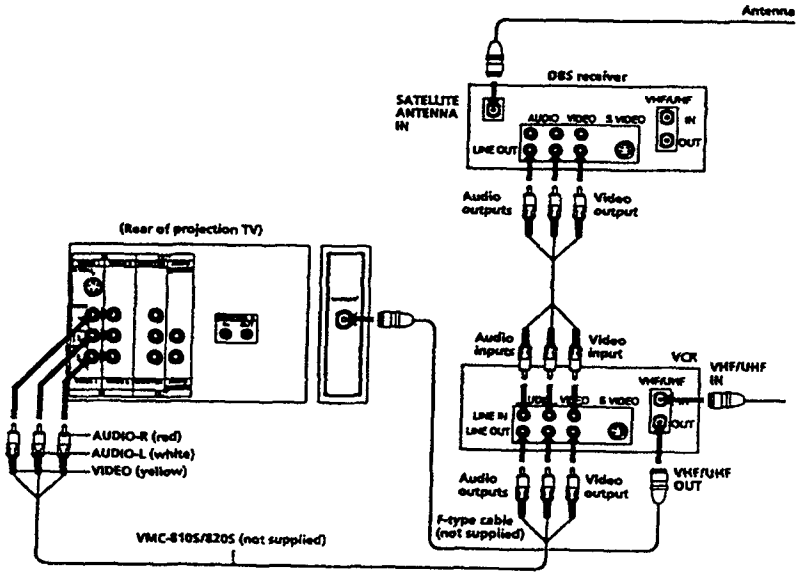
- You can use the S VIDEO jack or the composite video jack for video connection.

To a TV and VCR

■ *KP-41T25*

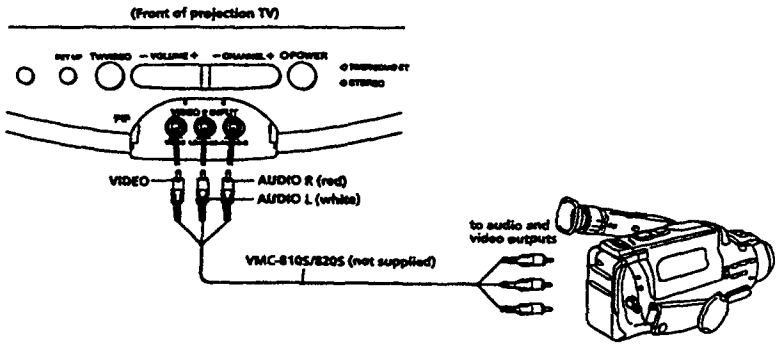


■ *KP-46S17/53S17*



Connecting a camcorder

This connection is convenient for watching the picture from a camcorder.



EN

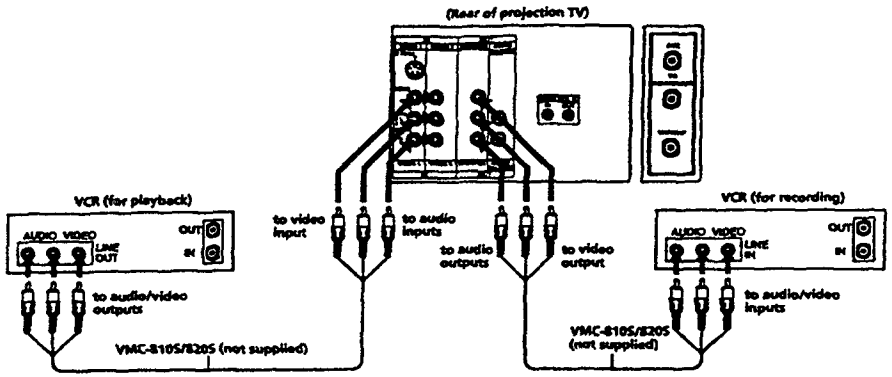
Note

- *To connect a monaural camcorder, connect the audio output of the camcorder to AUDIO L (MONO) of VIDEO 2 INPUT on the projection TV.*

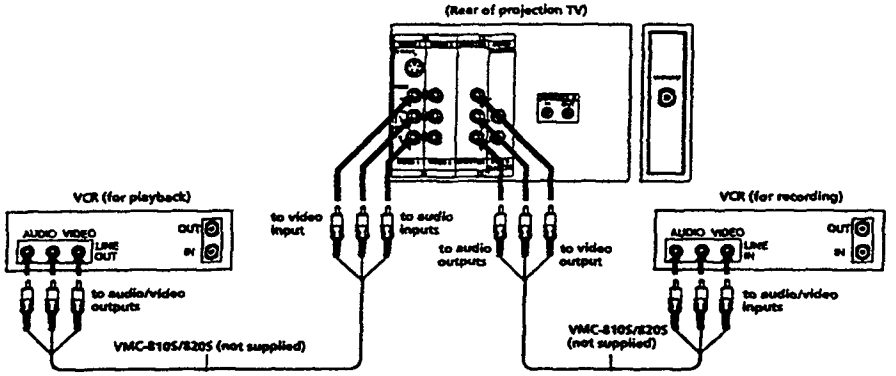
Connecting two VCRs for tape editing

You can record input images displayed on the screen. This type of connection should be used only when you connect from the line input of one VCR, and from the line output of a second VCR.

■ *KP-41T25*



■ *KP-46S17/53S17*



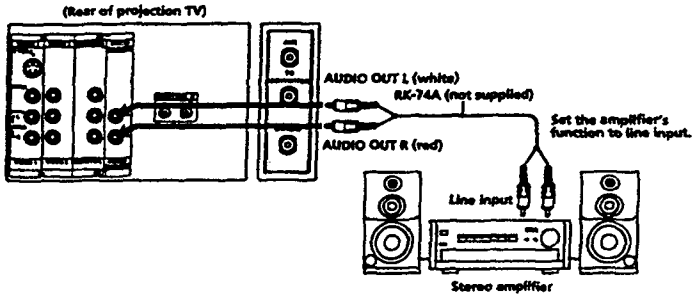
Notes

- Do not change the input signal while editing, or the output signal will also change.
- When connecting a single VCR to the projection TV, do not connect MONITOR OUT to the VCR's line input, while at the same time connecting from the projection TV's VIDEO IN jacks to the VCR's line output.
- You can use the S video connector to connect a VCR for playback and the composite video jack to connect a VCR for recording.

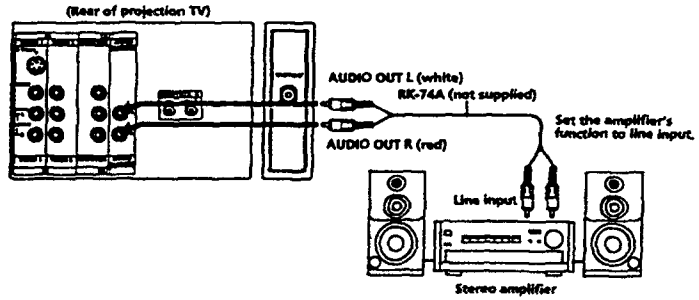
Connecting an audio system

When connecting audio equipment, see page 31 for more information.

■ *KP-41T25*



■ *KP-46S17/53S17*



Note

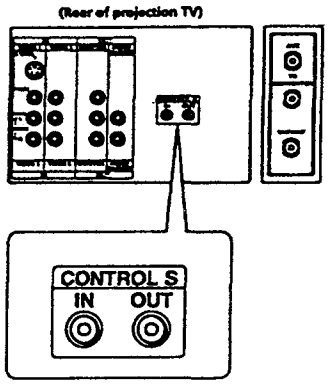
- You can adjust the bass, treble and balance, or select surround or an MTS (Multichannel TV Sound) mode with the supplied remote commander.

Connecting other Sony equipment with CONTROL S jack

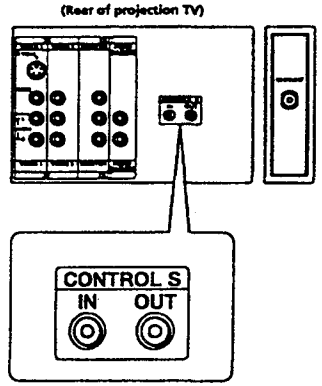
This feature allows you to control your projection TV and other Sony equipment with one remote commander.

- To control other Sony equipment with the projection TV's remote commander, connect the input of the equipment to CONTROL S OUT jack on the projection TV.
- To control the projection TV with the remote commander of other Sony equipment, connect the output of the equipment to CONTROL S IN jack on the projection TV.

■ *KP-41T25*

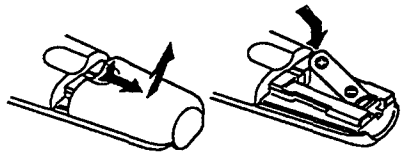


■ *KP-46S17/53S17*



Step 3: Setting up the remote commander

Insert one size AA (R6) battery (supplied) by matching the + and – on the battery to the diagram inside the battery compartment.



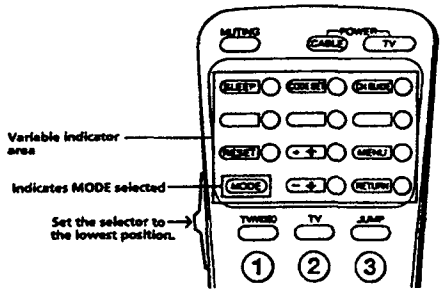
Notes

- With normal use, the battery should last for approximately six months.
- If you do not use the remote commander for an extended period of time, remove the battery to avoid possible damage from battery leakage.
- Do not handle the remote commander roughly. Do not drop it, step on it or let it get wet.
- Do not place the remote commander in direct sunlight, near a heater, or where the humidity is high.

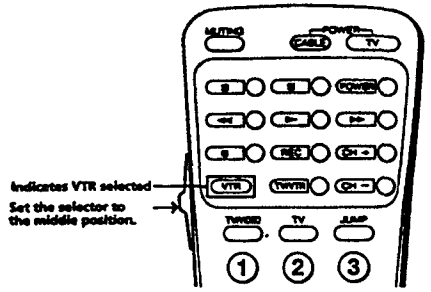
Using the remote commander

The upper half of the remote commander has three selectable operation modes. Each button in this area has three different functions. You can select the mode by sliding a selector on the left side.

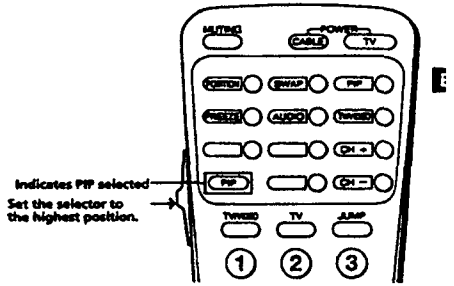
For normal TV viewing



For operating video equipment



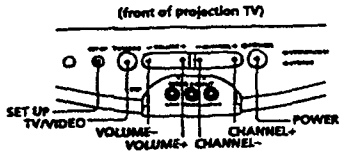
For using the Picture-in-Picture feature



Step 4: Setting up the projection TV automatically (AUTO SET UP)

You can set up your projection TV easily by using AUTO SET UP feature. It presets all the receivable channels, adjusts the convergence and changes the on-screen menu language. To set up the projection TV manually, see "Presetting channels" (page 22), "Setting cable TV on or off" (page 21), "Adjusting convergence" (page 20) and "Changing the menu language" (page 22).

If the projection TV is set to a video input, you cannot execute AUTO SET UP. Press TV/VIDEO so that a channel number appears.

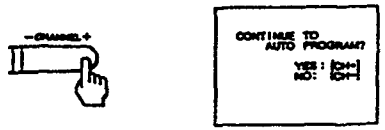


1 **Press POWER to turn the projection TV on.**

2 **Press SET UP on the front of the projection TV.**

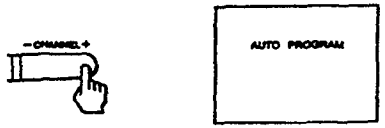
3 **Press CHANNEL+ to start AUTO SET UP.**

If you prefer Spanish or French to English, you can change the on-screen menu language. Press CHANNEL – for Spanish or VOLUME+ for French.

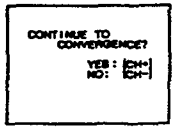


All of the menus will be set to the factory preset condition in the selected language.

4 **Press CHANNEL+ to preset channels.**



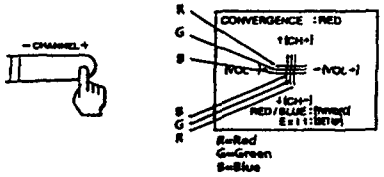
"AUTO PROGRAM" appears on the screen and the TV starts scanning and presetting channels automatically. When all the receivable channels are stored, "AUTO PROGRAM" disappears and the following menu appears. If the projection TV receives cable TV channels, CATV is set to ON automatically.



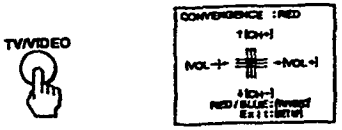
5 **Adjust convergence.**

(1) Press CHANNEL+.

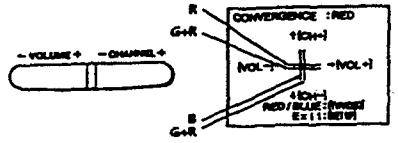
The CONVERGENCE adjustment screen appears.



(2) Press TV/VIDEO to select RED or BLUE.



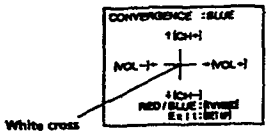
(3) Using CHANNEL+/– or VOLUME+/–, move the line until it converges with the center green line.



To move horizontal line up/down, press CHANNEL +/–.

To move vertical line right/left, press VOLUME+/–.

(4) Repeat steps (2) and (3) to adjust the other lines until all three lines converge and are seen as a white cross.



Notes

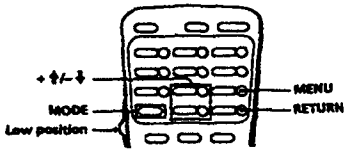
- If more than 90 seconds elapse after you press a button, the menu disappears automatically.
- In case of using the AUX connector, press the TV button on the remote commander first and make sure that "AUX" is displayed beside the channel number on the screen. Then follow steps 2 to 5 above to perform AUTO SET UP (KP-41T25 only).

To preview the main functions (DEMO)

Press VOLUME– in step 3. The functions and menus are displayed one by one.

Erasing or adding channels

After AUTO SET UP you can erase unnecessary channels or add the channels you want. Preset channels during the day rather than late at night, when some channels may not be broadcasting.

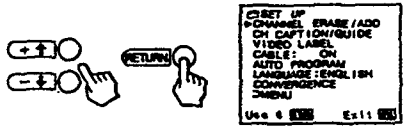


1 **Press MENU.**

The main menu appears.

2 **Press + ↑ or – ↓ to move the cursor (▶) to SET UP and press RETURN.**

The SET UP menu appears.



3 **Make sure the cursor (▶) is beside CHANNEL ERASE/ADD and press RETURN.**

If the cursor is not beside CHANNEL ERASE/ADD, press + ↑ or – ↓ to move the cursor and press RETURN.

The CHANNEL ERASE/ADD menu appears.

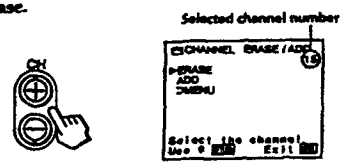
(continued)

4 Erase and/or add the channel you want:

To erase an unwanted channel

(1) Make sure the cursor (▶) is beside ERASE.

(2) Press CH + or – to select the channel you want to erase.



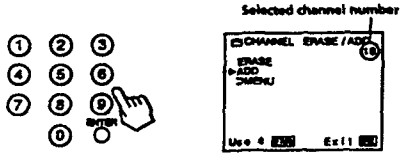
(3) Press RETURN.

The indication "–" appears beside the channel number, showing that the channel is erased from the preset memory.

To add a channel that you want

(1) Press + ↑ or – ↓ to select *ADD*.

(2) Press 0 – 9 button to select the channel you want to add and press ENTER.



(3) Press RETURN.

The indication "+" appears beside the channel number, showing that the channel is added to the preset memory.

5 To erase and/or add other channels, repeat step 4.

6 When you finish, press MENU.

Notes

- *If you erase or add a VHF or UHF channel, the cable TV channel with the same number is also erased or added, and vice versa.*
- *If more than 90 seconds elapse after you press a button, the menu disappears automatically.*
- *Erasing and adding channels are also available for the AUX input (KP-41T25 only).*

Adjusting convergence (CONVERGENCE)

The projection tube image appears on the screen in three layers (red, green and blue). If they do not converge, the color is poor and the picture blurs. To correct this, adjust convergence.

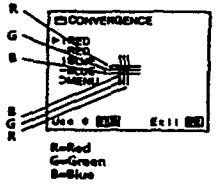
You do not have to do this procedure if you execute *AUTO SET UP* (page 18). Do this procudure only when you want to adjust it manually.

1 Press MENU.

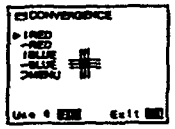
2 Press + ↑ or – ↓ to move the cursor (▶) to SET UP and press RETURN.

3 Press + ↑ or – ↓ to move the cursor (▶) to CONVERGENCE and press RETURN.

The CONVERGENCE adjustment screen appears.

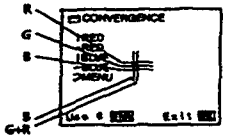


4 Press + ↑ or – ↓ to move the cursor (▶) to the symbol showing the line you want to adjust, and press RETURN.



|RED: Red vertical line (left/right adjustment)
—RED: Red horizontal line (up/down adjustment)
|BLUE: Blue vertical line (left/right adjustment)
—BLUE: Blue horizontal line (up/down adjustment)

5 Press + ↑ or – ↓ to move the line until it converges with the center green line, and press RETURN.



To move up/right, press + ↑.
To move down/left, press – ↓.

6 Repeat steps 4 and 5 to adjust other lines until all three lines converge and are seen as a white cross.

7 Press MENU to return to the original screen.

Setting cable TV on or off

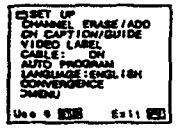
If you have connected the projection TV to a cable TV system, set CABLE to ON, the factory setting. If not, set CABLE to OFF.

You do not have to do this procedure if you execute AUTO SET UP (page 18). Do this procedure only when you want to set it manually.

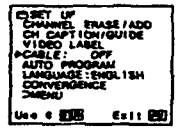
1 Press MENU.

2 Press + ↑ or – ↓ to move the cursor (▶) to SET UP and press RETURN.

3 Press + ↑ or – ↓ to move the cursor (▶) to CABLE and press RETURN.



4 Press + ↑ or – ↓ to select ON or OFF and press RETURN.



5 Press MENU to return to the original screen.

Note

- *If CABLE appears in black, the projection TV is set to a video input and you cannot select CABLE. Press TV on the remote commander so that a channel number appears.*

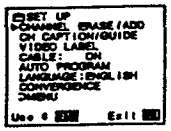
(continued)

Presetting channels

You can preset TV channels easily by AUTO PROGRAM feature.
You do not have to do this procedure if you execute AUTO SET UP (page 18). Do this procedure only when you want to set it manually.

1 **Press MENU.**

2 **Press + ↑ or – ↓ to move the cursor (▶) to SET UP and press RETURN.**



3 **Press + ↑ or – ↓ to move the cursor (▶) to AUTO PROGRAM and press RETURN.**

"AUTO PROGRAM" appears on the screen and the projection TV starts scanning and presetting channels automatically. When all the receivable channels are stored, "AUTO PROGRAM" disappears and the lowest numbered channel is displayed.

4 **Press MENU to return to the original screen.**

Notes

- If AUTO PROGRAM appears in black in the SET UP menu, the projection TV is set to a video input and you cannot select AUTO PROGRAM. Press TV/VIDEO or TV on the remote commander so that a channel number appears.
- If more than 90 seconds elapse after you press a button, the menu disappears automatically.
- Presetting channels is also available for the AUX input. (KP-41T25 only)

Changing the menu language

If you prefer Spanish or French to English, you can change the menu language.
You do not have to do this procedure if you execute AUTO SET UP (page 18). Do this procedure only when you want to set it manually.

1 **Press MENU.**

2 **Press + ↑ or – ↓ to move the cursor (▶) to SET UP and press RETURN.**

3 **Press + ↑ or – ↓ to move the cursor (▶) to LANGUAGE and press RETURN.**

4 **Press + ↑ or – ↓ to select the language and press RETURN.**
The menu in selected language appears.

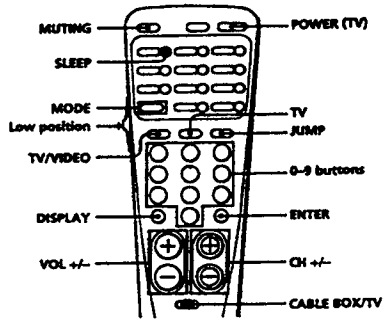
5 **Press MENU to return to the original screen.**

Note

- Even when you select Spanish or French language, certain parts of the menus remain in English.

Watching TV programs

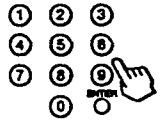
Check that the CABLE BOX/TV selector is set to TV.



1 **Press POWER (TV) to turn on the projection TV.**
The TIMER/STAND BY indicator flashes until the picture appears.

If "VIDEO" appears on the screen, press the TV/VIDEO or TV button so that a channel number appears.

2 **Select the channel you want to watch:**
To select a channel directly
Press the 0 – 9 buttons and then press ENTER.
For example, to select channel 10, press 1, 0 and ENTER.



To scan through channels
Press CH +/– until the channel you want to watch appears.

3 **Press VOL +/– to adjust the volume.**

Switching quickly between two channels

Press JUMP.
The channel you previously selected with the 0–9 buttons appears.

Pressing JUMP again switches back the channel.

Muting the sound

Press MUTING.
"MUTING" appears on the screen.

To restore the sound, press MUTING again, or press VOL +.

Displaying on-screen information

Press DISPLAY repeatedly until the desired display appears.
Each time you press DISPLAY, the display changes as follows:

Status display* → XDS** → Caption Vision***
↑ DISPLAY OFF ←

* Channel number, the current time, channel caption (if set), and MTS mode (if SAP is selected) are displayed. SAP indication disappears after three seconds.
** Some programs are broadcast with XDS (Extended Data Service) which shows a network name, program name, program type, program length, call letters, and time of the show. When you select XDS with the DISPLAY button, this information will be displayed on the screen if the broadcaster offers this service.

(continued)

***Some programs are broadcast with Caption Vision. When you select Caption Vision with the DISPLAY button, Caption Vision will be displayed on the screen if the broadcaster offers this service. (See page 38 for selecting Caption Vision.)

To cancel the display, press DISPLAY repeatedly until "DISPLAY OFF" appears. "DISPLAY OFF" goes off after three seconds.

Setting the Sleep Timer

The projection TV stays on for the length of time you specify and then shuts off automatically.

Press SLEEP repeatedly until the time (in minutes) you want appears.
Each time you press SLEEP, the time changes as follows: 30 → 60 → 90 → OFF.

"SLEEP" appears about one minute before the projection TV shuts off.

To cancel the Sleep Timer, press SLEEP repeatedly until "SLEEP OFF" appears, or turn off the projection TV.

The sleep timer is also cancelled when you select AUTO PROGRAM under the SET UP menu.

Watching a video input picture

Press TV/VIDEO repeatedly until the desired video input appears.
Each time you press TV/VIDEO, the display changes as follows: TV → VIDEO 1 → VIDEO 2 → VIDEO 3.

To return to TV picture, press TV.

Changing the VHF/UHF input to the AUX input (KP-41T25 only)

Press TV.
"AUX" appears beside the channel number.

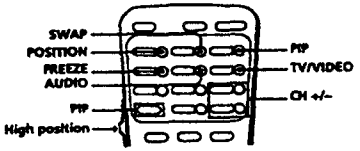
Pressing TV again switches back to the previous input.

Watching two programs at one time — PIP

The Picture-in-Picture (PIP) feature allows you to watch both the main picture and a window picture simultaneously.

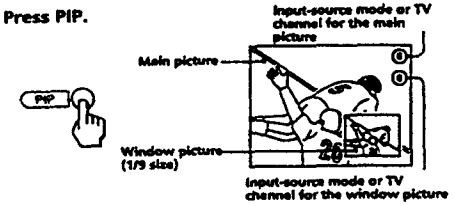
For KP-46S17/53S17, your projection TV must be connected to a VCR to watch two TV channels at one time. See "Connecting an antenna/cable TV system with a VCR" (pages 7 to 10) for connections.

For KP-41T25, the Picture-in-Picture (PIP) feature allows you to watch two TV channels at one time.

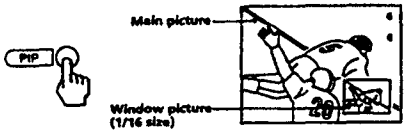


Displaying a window picture

Press PIP.


Input-source mode or TV channel for the main picture
Main picture
PIP
Window picture (1/9 size)
Input-source mode or TV channel for the window picture

Press PIP again to display a smaller window picture.



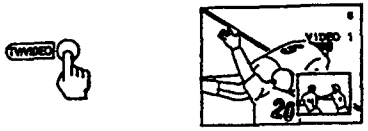
Each time your press PIP, the size of the window picture changes as follows: 1/9 size → 1/16 size → OFF.

To remove the window picture, press PIP repeatedly until the window picture disappears.

Notes
- If the main picture is not receiving an image, the window picture may be in black and white.
- The window picture sound is also output from the AUDIO (VAR/FIX) OUT jacks when you listen to it.

Changing the window picture input mode

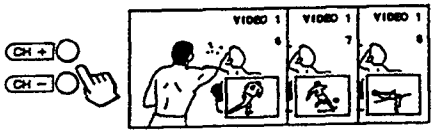
Press TV/VIDEO in the PIP control area of the remote commander to select the input mode.
Each time you press TV/VIDEO, "TV," "VIDEO 1," "VIDEO 2" and "VIDEO 3" appear in sequence.



Note
- If you connect your VCR without a cable box, your PIP input source is a VCR. If you connect your VCR with a cable box, your PIP input source is a VCR or cable box.

Changing TV channels in the window picture

Press CH +/– in the PIP control area.



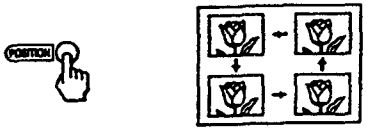
Listening to the sound of the window picture

Press AUDIO.
"♪" appears for a few seconds, indicating that the window picture sound is being received.

To restore the main picture sound, press AUDIO again.

Changing the position of the window picture

Press POSITION.
Each time you press POSITION, the window picture will move as illustrated.



Freezing the window picture

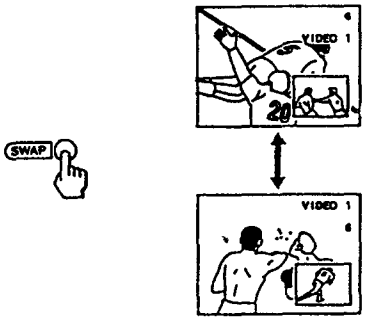
This feature is useful when you want to write down a recipe from a cooking program, a displayed address or a phone number and so on.

Press FREEZE.

To restore the normal screen, press FREEZE again.

Swapping the main and window pictures

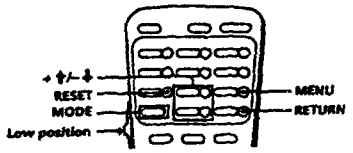
Press SWAP.
Each time you press SWAP, the images and sound from the main and window pictures switch places with another.



Note (KP-41T25 only)
- The channels being received through the AUX jack cannot be displayed as a window picture.

Selecting picture and sound effects (PROGRAM PALETTE)

You can select one of three settings for picture and sound effects that best suits the program.
You can also adjust picture effect for each setting to suit your taste.



1 **Press MENU.**

2 **Press + ↑ or – ↓ to select PROGRAM PALETTE and press RETURN.**

3 **Select the item you want to adjust.**
For example:
(1) To select MOVIE, press + ↑ or – ↓ to move the cursor to MOVIE.

(2) Press RETURN.

For details on each item, see "Effect of three items" in the right column.

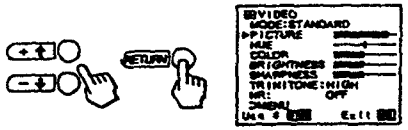
Effect of three items

Item	Picture effect	Sound effect
STANDARD	Standard	Standard
MOVIE	Finely detailed picture	Theatrical audio effect
SPORTS	Vivid, bright picture	Sound with a sports stadium effect

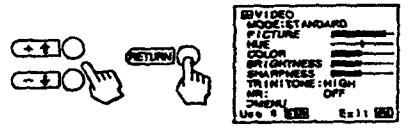
Adjusting the picture in PROGRAM PALETTE

1 **Press MENU.**

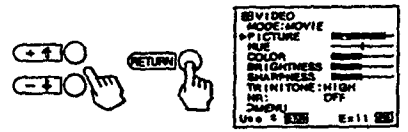
2 **Press + ↑ or – ↓ to select VIDEO and press RETURN.**



3 **Press + ↑ or – ↓ to select MODE and press RETURN.**



4 **Press + ↑ or – ↓ to select the item which you want to adjust and press RETURN.**

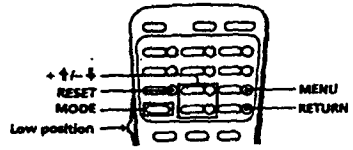


5 **Adjust the picture according to the steps 3 to 5 in "Adjusting the picture" on page 27.**

To restore the factory setting
Press RESET while the VIDEO menu is displayed.

Adjusting the picture (VIDEO)

When watching TV programs, you can adjust the quality of the picture to suit your taste. The adjusted level is stored in PROGRAM PALETTE in which that adjustment is done. You can adjust the picture of video input(s) as well.



1 **Press MENU.**

2 **Press + ↑ or – ↓ to move the cursor to VIDEO and press RETURN.**
The VIDEO adjustment menu appears.

3 **Select the item you want to adjust.**
For example:
(1) To adjust brigtness, press + ↑ or – ↓ to select BRIGHTNESS.

(2) Press RETURN.

4 **Adjust the selected item:**
(1) Press + ↑ or – ↓ to adjust the item.

(2) Press RETURN.
The new setting appears in the VIDEO menu, and is stored in the displayed PROGRAM PALETTE mode.

For details on each item, see "Description of adjustable items" below.

5 **To adjust other items, repeat steps 3 and 4.**

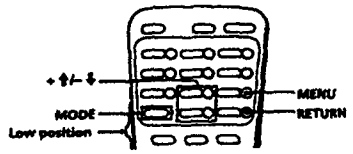
Description of adjustable items.

Item	Press + ↑ to	Press – ↓ to
PICTURE	Increase picture contrast for vivid color	Decrease picture contrast for soft color
HUE	Make overall picture greenish	Make overall picture purplish
COLOR	Increase color intensity	Decrease color intensity
BRIGHTNESS	Brighten the picture	Darken the picture
SHARPNESS	Sharpen the picture	Soften the picture

To restore the factory setting
Press RESET on the remote commander.

Adjusting the color temperature (TRINITONE)

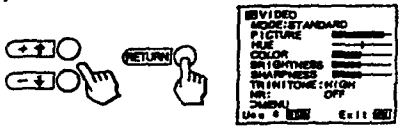
The TRINITONE feature controls the color temperature, permitting white balance preference adjustment without affecting skin tones.



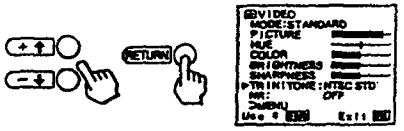
1 Press MENU.

2 Press + ↑ or – ↓ to select VIDEO and press RETURN.

3 Press + ↑ or – ↓ to select TRINITONE and press RETURN.



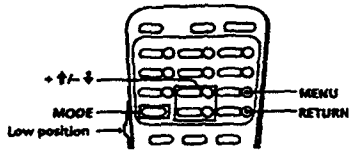
4 Press + ↑ or – ↓ to select NTSC STD, MEDIUM or HIGH and press RETURN.



Choose	To
NTSC STD	Make the white color reddish.
MEDIUM	Make the white color whitish.
HIGH	Make the white color bluish.

Reducing picture noise (NR)

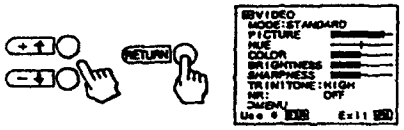
You can reduce picture noise when NR is set to ON.



1 Press MENU.

2 Press + ↑ or – ↓ to select VIDEO and press RETURN.

3 Press + ↑ or – ↓ to select NR and press RETURN.



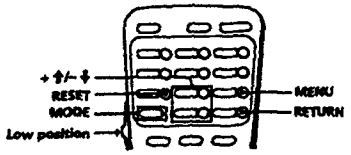
4 Press + ↑ or – ↓ to select ON and press RETURN.

Note

- This feature is useful when watching a weak broadcast signal.

Adjusting sound (AUDIO)

You can adjust the quality of the TV sound to suit your taste. You can adjust the sound of video input(s) as well.



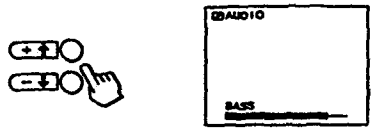
1 Press MENU.

2 Press + ↑ or – ↓ to select AUDIO and press RETURN.

3 Select the item you want to adjust.
For example:
(1) To adjust bass, press + ↑ or – ↓ to select BASS.

(2) Press RETURN.

4 Adjust the selected item:
(1) Press + ↑ or – ↓ to adjust the item.



(2) Press RETURN.
The new setting appears in the AUDIO menu.

For details on each item, see "Description of adjustable items" below.

5 To adjust other items, repeat steps 3 and 4 above.

Description of adjustable items

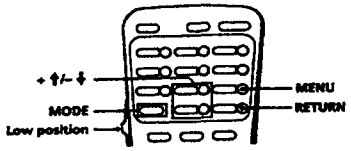
Item	Press + ↑ to	Press – ↓ to
TREBLE	Increase the treble response	Decrease the treble response
BASS	Increase the bass response	Decrease the bass response
BALANCE	Emphasize the right speaker's volume	Emphasize the left speaker's volume

To restore the factory settings

Press RESET on the remote commander.

Listening to surround sound (SURROUND)

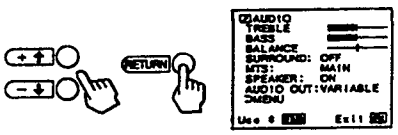
The SURROUND feature simulates sound reproduction with the atmosphere of a movie theater or a concert hall. Surround sound is only effective for stereo programs (stereo light indication on).



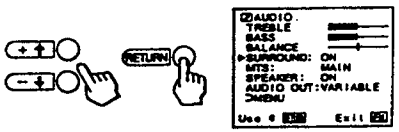
1 Press MENU.

2 Press + ↑ or – ↓ to select AUDIO and press RETURN.

3 Press + ↑ or – ↓ to select SURROUND and press RETURN.

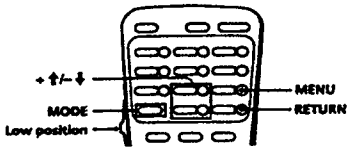


4 Press + ↑ or – ↓ to select ON and press RETURN.



Selecting stereo or bilingual programs (MTS)

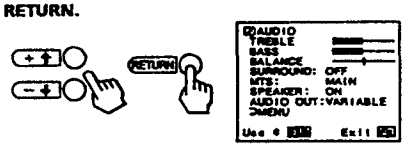
The Multichannel TV Sound (MTS) feature gives you the choice to enjoy stereo sound or Second Audio Programs (SAP) when available. The initial setting is stereo sound (MAIN).



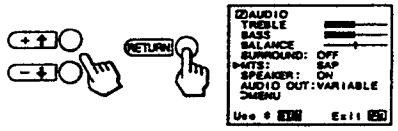
1 Press MENU.

2 Press + ↑ or – ↓ to select AUDIO and press RETURN.

3 Press + ↑ or – ↓ to select MTS and press RETURN.



4 Press + ↑ or – ↓ to select MAIN, SAP or MONO and press RETURN.



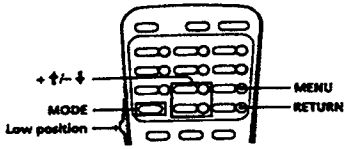
Choose	To
MAIN	Listen to stereo sound. The STEREO indicator on the projection TV lights up while a stereo broadcast is received.
SAP	Listen to bilingual programs. The sound of non-SAP programs will be muted when SAP is selected.
MONO	Reduce noise during stereo broadcasts.

Note

- Stereo and SAP sounds are subject to program sources.

Setting the speaker switch (SPEAKER)

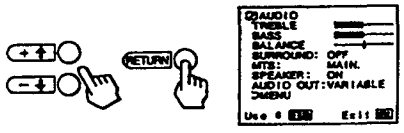
You may switch off the projection TV speakers when, for example, you want to listen to the sound through a stereo system.



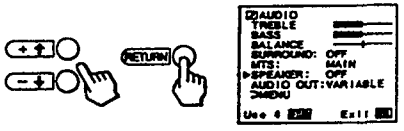
1 Press MENU.

2 Press + ↑ or – ↓ to select AUDIO and press RETURN.

3 Press + ↑ or – ↓ to select SPEAKER and press RETURN.

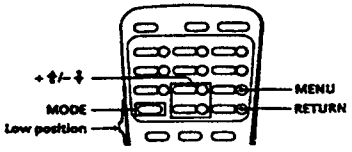


4 Press + ↑ or – ↓ to select OFF and press RETURN.



Setting audio out (AUDIO OUT)

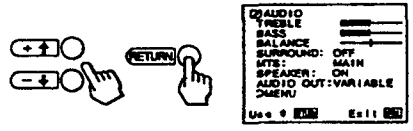
You can select audio out to variable or fixed when SPEAKER is set to OFF.
Audio out is variable when SPEAKER is set to ON.



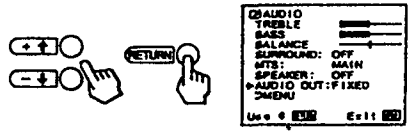
1 Press MENU.

2 Press + ↑ or – ↓ to select AUDIO and press RETURN.

3 Press + ↑ or – ↓ to select AUDIO OUT and press RETURN.



4 Press + ↑ or – ↓ to select VARIABLE or FIXED and press RETURN.



VARIABLE: Sound output varied according to the projection TV settings. You can adjust the volume, bass, treble and balance.

FIXED: Sound output is always fixed to a certain level. You cannot adjust the volume.

Setting daylight saving time (DAYLIGHT SAVING)

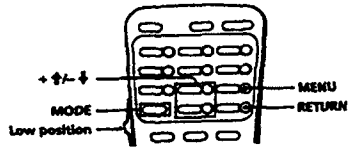
If your area uses daylight saving time, change DAYLIGHT SAVING setting depending on the season, before setting the current time.

Daylight saving start

- After the first Sunday in April, set DAYLIGHT SAVING to YES. Current time setting (page 33) automatically moves one hour ahead.

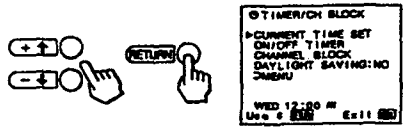
Daylight saving end

- After the last Sunday in October, set DAYLIGHT SAVING to NO. Current time setting automatically moves one hour back.

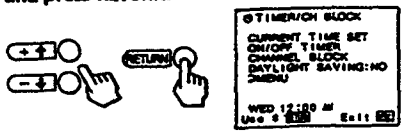


1 **Press MENU.**

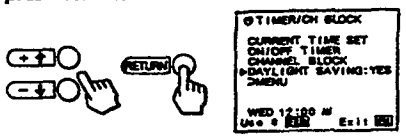
2 **Press + ↑ or – ↓ to move the cursor (▶) to TIMER/CH BLOCK and press RETURN.**



3 **Press + ↑ or – ↓ to select DAYLIGHT SAVING and press RETURN.**



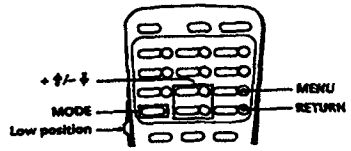
4 **Press + ↑ or – ↓ to select YES or NO and press RETURN.**



Choose	To
YES	Set for daylight saving start
NO	Set for daylight saving end

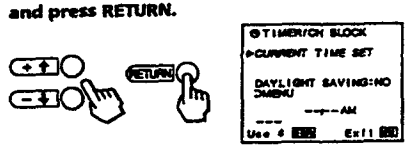
Setting the clock (CURRENT TIME SET)

Set the current time before using On/off Timer (page 34) and Channel Block features (page 35). For example, set the clock to 3:15 p.m., Monday.



1 **Press MENU.**

2 **Press + ↑ or – ↓ to select TIMER/CH BLOCK and press RETURN.**

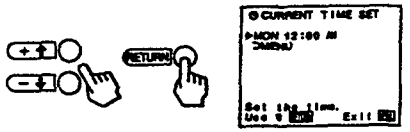


If you need to set DAYLIGHT SAVING, follow the procedure on the previous page.

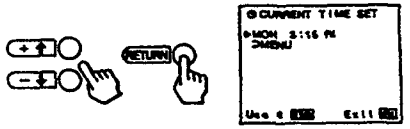
3 **Make sure the cursor (▶) is beside CURRENT TIME SET, and press RETURN.**
If the cursor is not beside CURRENT TIME SET, press + ↑ or – ↓ to move the cursor and press RETURN.

4 **Set the current time.**
(1) Press RETURN to start setting the time.

(2) Press + ↑ or – ↓ to set the day and press RETURN.



(3) Using + ↑ or – ↓ and RETURN, set hour and minute in the same way as in step (2).
When you press RETURN after setting the minute, the clock starts.



If you make a mistake while setting the time
Press RESET while the CURRENT TIME SET menu is displayed, then repeat step 4.

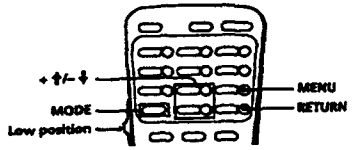
To display the current time
Press DISPLAY.

Note

- If you unplug the projection TV or a power interruption occurs, the clock will be erased. Reset the current time.

Setting the timer to turn the projection TV on and off (ON/OFF TIMER)

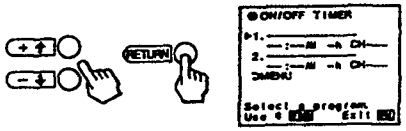
You can set the projection TV to turn on and off at the time you specify. Make sure the clock is set correctly. If it is not, set the clock first.



1 **Press MENU.**

2 **Press + ↑ or – ↓ to select TIMER/CH BLOCK and press RETURN.**

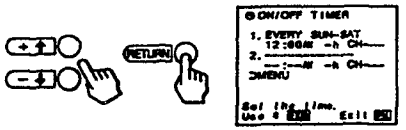
3 **Press + ↑ or – ↓ to select ON/OFF TIMER and press RETURN.**



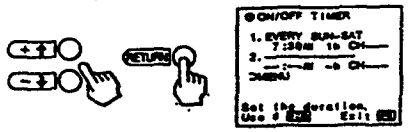
4 **Enter the ON/OFF TIMER setting.**

(1) Press + ↑ or – ↓ to select program 1 or 2 and press RETURN.

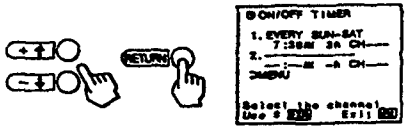
(2) Press + ↑ or – ↓ to set the days and press RETURN. Each time you press + ↑ or – ↓, the days cycle as shown below.
EVERY SUN–SAT→EVERY MON–FRI→
SUNDAY→MONDAY→...→SATURDAY→
EVERY SUNDAY→EVERY MONDAY→
...→EVERY SATURDAY



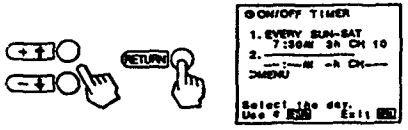
(3) Press + ↑ or – ↓ to set the time (hour then minute) that you want to turn on the projection TV and press RETURN.



(4) Press + ↑ or – ↓ to set the hour duration and press RETURN.
You can set the hour duration by one hour up to a maximum of six hours.



(5) Press + ↑ or – ↓ to select the channel and press RETURN.



The TIMER/STAND BY indicator on the projection TV lights.

5 **To set the other program, press RETURN and repeat step 4.**

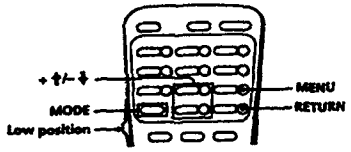
One minute before the projection TV switches to turn off, a message "TV will turn off." is displayed on the screen.

To cancel the timer
Press RESET on the remote commander.

Note
- If you unplug the projection TV or a power interruption occurs, ON/OFF TIMER settings will be erased. Reset the current time, then set the timer.

Blocking out a channel (CHANNEL BLOCK)

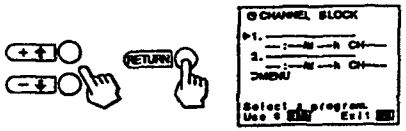
This feature allows you to prevent children from watching unsuitable programs.
Make sure the clock is set correctly. If it is not, set the clock first (page 33).



1 **Press MENU.**

2 **Press + ↑ or – ↓ to select TIMER/CH BLOCK and press RETURN.**

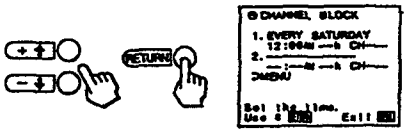
3 **Press + ↑ or – ↓ to select CHANNEL BLOCK and press RETURN.**



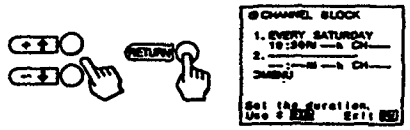
4 **Enter a CHANNEL BLOCK setting.**

(1) Press + ↑ or – ↓ to select program 1 or 2 and press RETURN.

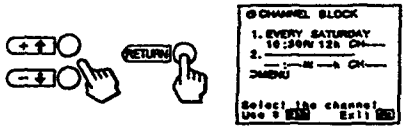
(2) Press + ↑ or – ↓ to set the days and press RETURN. Each time you press + ↑ or – ↓, the days cycle as shown below.
EVERY SUN–SAT→EVERY MON–FRI→
SUNDAY→MONDAY→...→SATURDAY→
EVERY SUNDAY→EVERY MONDAY→
...→EVERY SATURDAY



(3) Press + ↑ or – ↓ to set the time (hour then minute) that you want to start blocking the channel and press RETURN.



(4) Press + ↑ or – ↓ to select the hour duration you want to block and press RETURN.
Each time you press RETURN, the hour duration increases by one hour up to a maximum of 12 hours.



(5) Press + ↑ or – ↓ to select the channel and press RETURN.

If you select the blocked channel during the time you set, the message "BLOCKED" appears and the picture is blocked and the sound is muted.

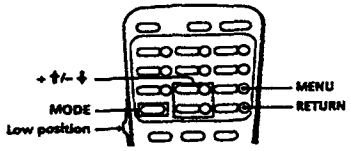
To cancel a CHANNEL BLOCK setting
Press RESET on the remote commander.

Note
- If the CHANNEL BLOCK and ON/OFF TIMER settings are overlapped, the later time setting has priority over the other setting.

Customizing the channel number buttons (CH CAPTION/GUIDE)

You can choose up to 12 channels, caption each channel, and assign a specific channel number button to each channel. This feature allows you to select your favorite channels easily by name. For example, you can name channel 20 "ESPN," and assign the channel number 4 button to it.

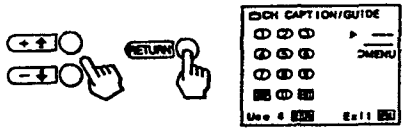
Setting captions to favorite channels



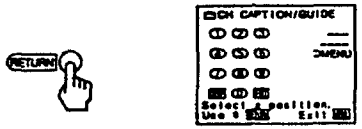
1 Press MENU.

2 Press + ↑ or – ↓ to select SET UP and press RETURN.

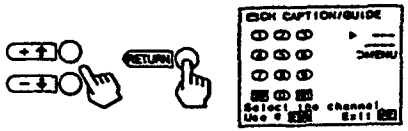
3 Press + ↑ or – ↓ to select CH CAPTION/GUIDE and press RETURN.



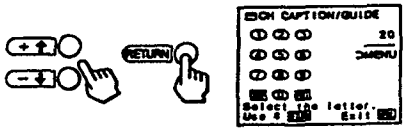
4 Press RETURN again.



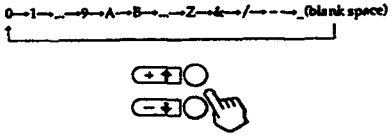
5 Press + ↑ or – ↓ to select a channel guide number button and press RETURN.
Each time you press + ↑ or – ↓, the channel positions change to red in turns. The channel number button you select will be the one you press to call up your favorite channel.



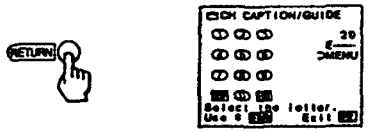
6 Press + ↑ or – ↓ to select the channel that you want to caption and press RETURN.



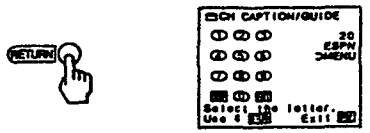
7 Enter the letters or numbers (up to four) to caption the channel:
(1) Press + ↑ or – ↓ to select the first letter (number).
Each time you press + ↑ or – ↓, the letter (number) changes as shown below.



(2) Press RETURN.



(3) Repeat steps (1) and (2) to select the remaining letters (numbers) and press RETURN.

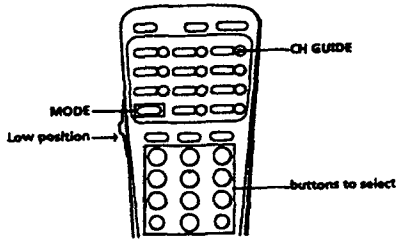


8 Repeat steps 4 to 7 to caption other channels.

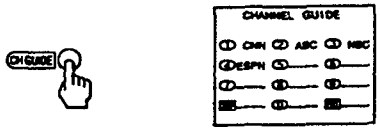
To erase a caption
Press RESET after step 4.

Notes
- The position number you already selected appears in yellow.
- If the CH CAPTION/GUIDE menu appears in black, the projection TV is set to a video input, and you cannot select CH CAPTION/GUIDE. Press TV so that a channel number appears.
- If more than 90 seconds elapse after you press a button, the menu disappears automatically.
- The channel caption feature is not available for the AUX input (KP-41T25 only).

Selecting a captioned channel



1 Press CH GUIDE.
The CHANNEL GUIDE menu appears showing channel captions and the corresponding channel number buttons.

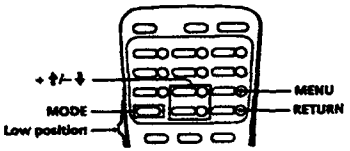


2 Press a channel number button, the DISPLAY or ENTER button to select the channel you want.

To cancel the CHANNEL GUIDE menu
Press CH GUIDE again.

Setting video labels (VIDEO LABEL)

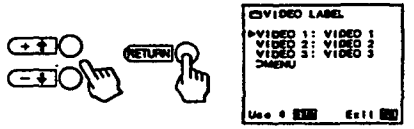
This feature allows you to label each input mode so that you can easily identify the connected equipment. For example, you can label VIDEO 1 IN as VHS.



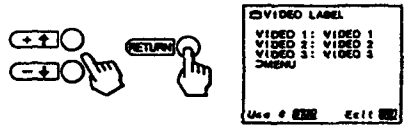
1 Press MENU.

2 Press + ↑ or – ↓ to select SET UP and press RETURN.

3 Press + ↑ or – ↓ to select VIDEO LABEL and press RETURN.



4 Press + ↑ or – ↓ to select the input mode you want to label and press RETURN.



(continued)

5 **Press + ↑ or – ↓ to select the label and press RETURN.**

Each time you press + ↑ or – ↓, the label changes as shown below.

VIDEO 1
VIDEO 1→S-VIDEO→BETA→8mm→VHS→LD→DBS

VIDEO 2
VIDEO 2→BETA→8mm→VHS→LD→DBS

VIDEO 3
VIDEO 3→BETA→8mm→VHS→LD→DBS

6 **Repeat steps 4 and 5 to label other input modes.**

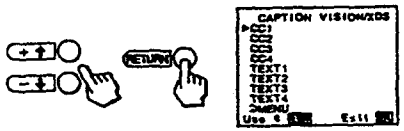
Note
- If more than 90 seconds elapse after you press a button, the menu disappears automatically.

Displaying Caption Vision (CAPTION VISION/ XDS)

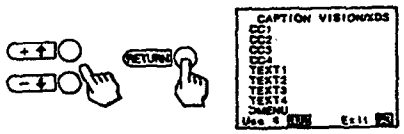
Some programs are broadcast with Caption Vision. To display Caption Vision, select either CC1, CC2, CC3, CC4, TEXT1, TEXT2, TEXT3 or TEXT4 from the menu. CC1, CC2, CC3 or CC4 shows you a caption, that is a printed version of the dialog or sound effects of a program. (The mode should be set to CC1 for most programs.)
TEXT1, TEXT2, TEXT3 or TEXT4 shows you text, that is information presented using either half or the whole screen. It is not usually related to the program.

1 **Press MENU.**

2 **Press + ↑ or – ↓ to select CAPTION VISION/ XDS and press *RETURN*.**



3 **Press + ↑ or – ↓ to select the caption type and press RETURN.**
The selected caption type is colored green.



To turn off the captions or text
Press DISPLAY on the remote commander.
Each time you press DISPLAY, the display changes as follows:
on-screen information→XDS*→Caption Vision or Text
↳ DISPLAY OFF ←

"DISPLAY OFF" goes off after three seconds.

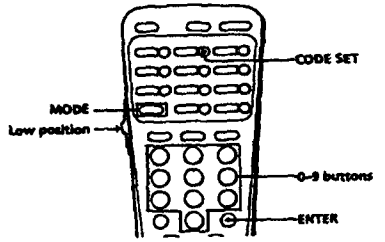
* Some programs are broadcast with XDS service which shows a network name, program name, program length, call letters and time of the show. When you select XDS with the DISPLAY button, this information will be displayed on the screen if the broadcaster offers this service.

Note
- Captions may appear with a white box or another error instead of a certain word. Poor reception of TV programs can also cause errors in Closed Caption.

Operating video equipment

You can operate a piece of video equipment that has an infrared remote sensor with the supplied remote commander. Before operating, set the manufacturer's code number.

Setting the manufacturer's code



While holding down CODE SET, press 0 – 9 to enter the manufacturer's code number (see the chart on page 35) and press ENTER. For example, to operate a Sony 8 mm VCR, press 0, 2 and ENTER.

(continued)

Manufacturer code numbers

Manufacturer	Code number
SONY	01, 02, 03
CANON	05
EMERSON	22, 30, 33
FISHER	10, 11, 12, 15
FUNAI	29
GENERAL ELECTRIC	05, 08
GOLDSTAR	25
HITACHI	07, 08, 36
JVC	16, 35
MAGNAVOX	05, 06, 09
MITSUBISHI	18, 19, 26, 27
MULTITECH	29
NEC	16, 23, 31
PANASONIC	05, 06, 37
PHILCO	05, 06
PHILIPS	05, 06, 09
QUASAR	05, 06
RCA	07, 08
SAMSUNG	24, 32
SANYO	11, 15
SCOTT	21
SHARP	13, 14
SHINTOM	34
SYLVANIA	05, 06, 09
SYMPHONIC	29
TEKNIKA	28, 29
TOSHIBA	20, 21
TOTE VISION	25
ZENITH	17

MDP manufacturer code numbers

Manufacturer	Code number
SONY	04
KENWOOD	58
MAGNAVOX	52
MARANZ	54
MITSUBISHI	51
PANASONIC	55
PHILIPS	52
PIONEER	51
RCA	51
SANYO	57
SHARP	56
YAMAHA	53

Notes

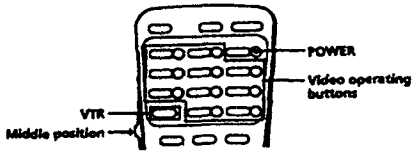
- If more than one code number is listed, try entering them one by one, until you come to the correct code for your equipment.
- In some rare cases, you may not be able to operate your non-Sony video equipment with this remote commander. This is because your equipment may use a code that is not provided with this remote commander. In this case, please use the equipment's own remote control unit.
- The code numbers for Sony equipment are assigned at the factory as follows:

Beta, ED Beta VCRs	01
8 mm VCR	02
VHS VCR	03 (preset code for this remote commander)

Caution

When you remove a battery from the remote commander, the code may revert to 03. Reset the codes each time you replace the battery, if necessary.

Operating video equipment



Use the video operating buttons on the remote commander to operate the video equipment.

Operating a VCR	Buttons on the remote commander
To turn on or off	Press POWER
To change channels	Press CH +/–
To record	Press ● and REC simultaneously
To play	Press ►
To stop	Press ■
To fast forward	Press ►►
To rewind the tape	Press ◄◄
To pause	Press II
To search the picture forward and backward	Press ►► or ◄◄ during playback

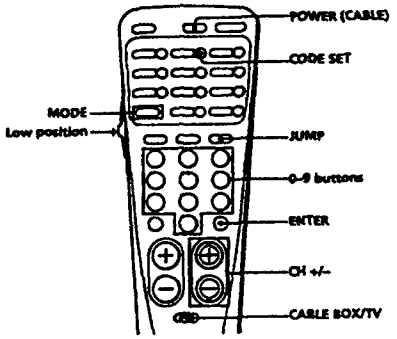
Operating a laser-disc player	Buttons on the remote commander
To play	Press ►
To stop	Press ■
To pause	Press II To resume normal playback, press again.
To search the picture forward and backward	Keep pressing ►► or ◄◄ during playback To resume normal playback, release the button.
To search the chapter forward and backward	Press CH +/–

Note

- If the video equipment does not have a certain function, the corresponding button on this remote commander will not operate.

Operating a cable box

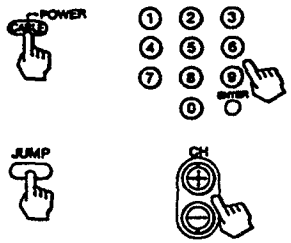
You can operate a connected cable box with the supplied remote commander. Before operating, set the manufacturer's code number.



1 Set the CABLE BOX/TV selector to CABLE BOX.

2 While holding down CODE SET, press 0 – 9 to enter the manufacturer's code number (see the chart in the right column) and press ENTER. For example, to operate a Zenith cable box, press 6 and 8 and press ENTER.

3 Use POWER (CABLE) and the projection TV control buttons (0 – 9, ENTER, JUMP and CH +/–) to operate the cable box.



To operate the projection TV

Set the CABLE BOX/TV selector to TV. Then use the projection TV control buttons to control the projection TV.

For more details on operating the cable box

Refer to the operating instructions that come with the cable box.

Manufacturers and code numbers (cable box)

Manufacturer	Code number
JERROLD	60, 61, 62, 63, 64, 65, 73
PIONEER	69, 70
SCIENTIFIC ATLANTA	66, 67
TOCOM	71, 72
ZENITH	68

Notes

- If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment.
- If you enter a new code number, the code number you previously entered at that setting is erased.
- In some rare cases, your equipment may use a code that is not provided with this remote commander and you may not be able to operate your cable box with the supplied remote commander. In this case, use the equipment's own remote control unit.
- When you remove a battery from the remote commander, the code may be erased. Reset the code each time you replace the battery, if necessary.

Troubleshooting

After trying the methods below, if the problem persists, contact your nearest Sony dealer.

No picture (screen not lit), no sound

- ➡ Make sure the power cord is connected securely.
- ➡ Check to see if the TV/VIDEO setting is correct: when watching TV, set to TV, and when watching video tapes, set to VIDEO. (page 24)
- ➡ Make sure the CABLE BOX/TV selector is in the correct position. (page 23)
- ➡ Try another channel. It could be station trouble.

Poor or no picture (screen lit), good sound

- ➡ Adjust PICTURE in the VIDEO menu. (page 27)
- ➡ Adjust BRIGHTNESS in the VIDEO menu. (page 27)
- ➡ Adjust the convergence. (page 20)
- ➡ Check antenna/cable connections. (page 6)

Good picture, no sound

- ➡ Press MUTING so that "MUTING" disappears from the screen. (page 23)
- ➡ Check the MTS setting in the AUDIO menu. (page 30)
- ➡ Make sure SPEAKER is set to ON in the AUDIO menu. (page 31)

No color

- ➡ Adjust COLOR in the VIDEO menu. (page 27)
- ➡ Confirm that black and white program is not being broadcast.

Only snow and noise appear on the screen

- ➡ Check the CABLE setting in the SET UP menu. (page 21)
- ➡ Check the antenna/cable connections. (page 6)
- ➡ Make sure the channel is broadcasting programs.

Dotted lines or stripes

- ➡ Adjust the antenna.
- ➡ Move the projection TV away from noise sources such as cars, neon signs, and hair-dryers.

Double images or ghosts

- ➡ Use a highly directional outdoor antenna or a cable (when the problem is caused by reflections from nearby mountains or tall buildings.)

Cannot operate menu

- ➡ If the item you want to choose appears in black, you cannot select it. Press TV/VIDEO correctly.
- ➡ Check the CABLE setting in the SET UP menu. (page 21)

Cannot receive upper channels (UHF) when using an antenna

- ➡ Check if CABLE is OFF in the SET UP menu. (page 21)
- ➡ Use AUTO PROGRAM to add receivable channels that are not presently in the memory. (page 22)

Cannot receive any channels when using cable TV

- ➡ Check if CABLE is ON in the SET UP menu. (page 21)
- ➡ Use AUTO PROGRAM to add receivable channels that are not presently in the memory. (page 22)

Remote commander does not operate

- ➡ Battery could be weak. Replace the battery. (page 17)
- ➡ Make sure the projection TV's power cord is connected securely to wall outlet.
- ➡ Set the CABLE BOX/TV selector to TV when operating your projection TV.
- ➡ Are fluorescent lights too close to the projection TV? Move lights at least 3 – 4 feet away from the projection TV.

Commander's power, channel up/down, channel buttons do not function

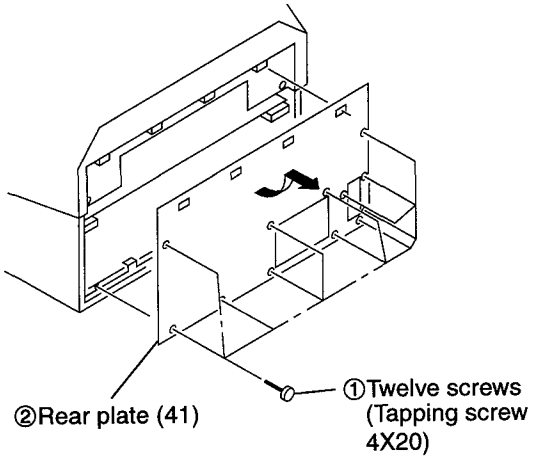
- ➡ Set the CABLE BOX/TV selector to the correct position. (page 41)

Cannot gain enough volume when using a cable box

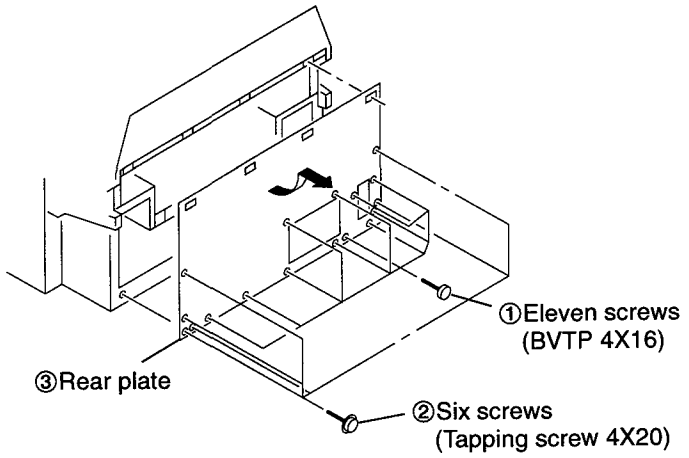
- ➡ Increase the volume at the cable box. Then set the CABLE BOX/TV selector to TV and adjust the projection TV's volume. (page 41)

SECTION 2
DISASSEMBLY

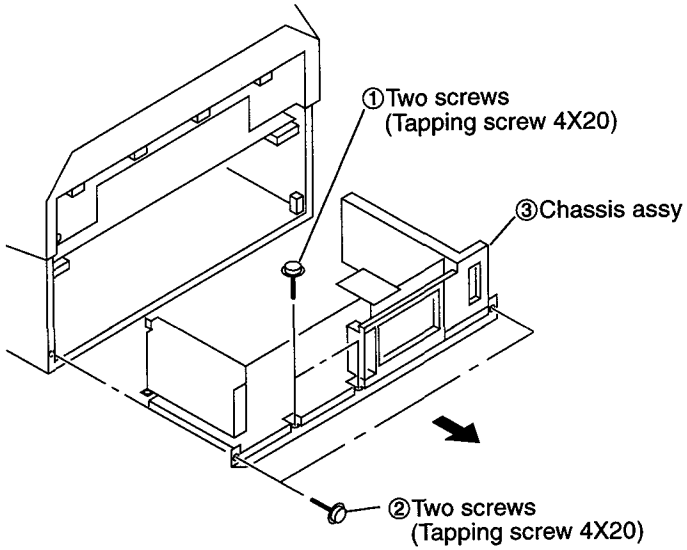
2-1-1. REAR PLATE REMOVAL (KP-41T25)



2-1-2. REAR PLATE REMOVAL (KP-46S25/53S25)

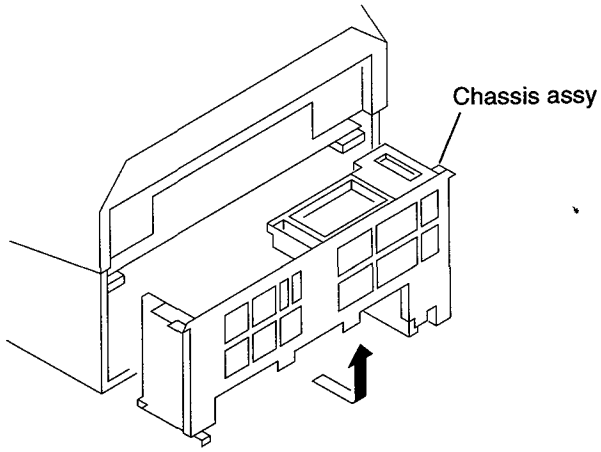


2-2. CHASSIS ASSY REMOVAL

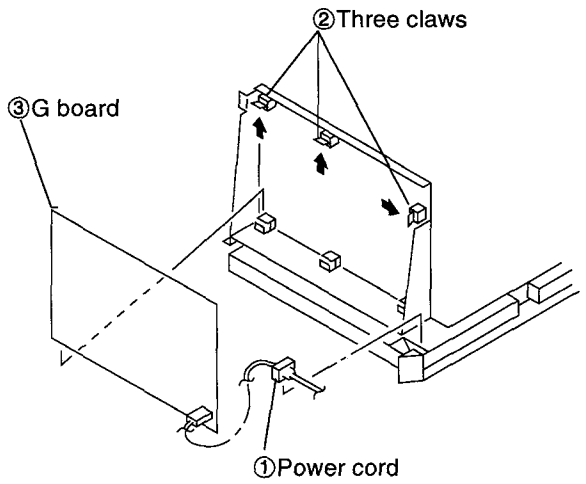


2-3. SERVICE POSITION

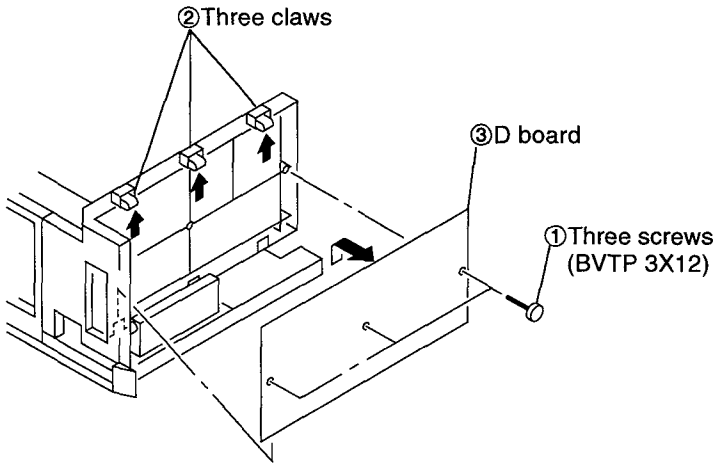
· **Remove the chassis assy (Refer to 2-2.)**



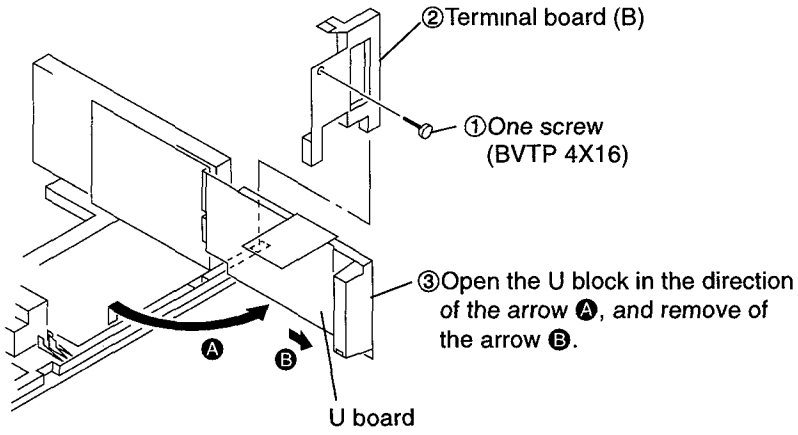
2-4. G BOARD REMOVAL



2-5. D BOARD REMOVAL



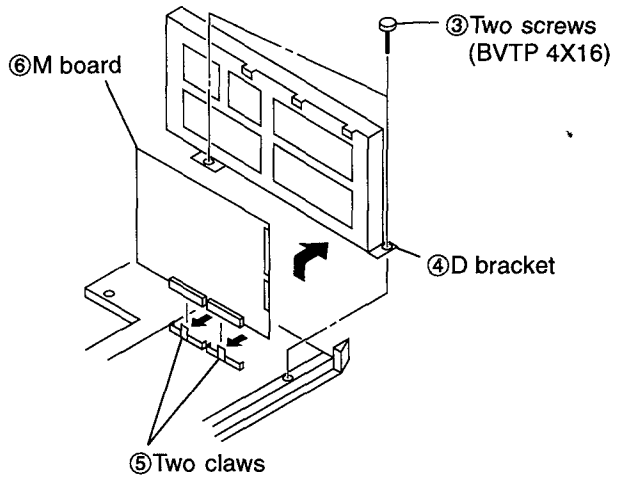
2-6. U BOARD REMOVAL



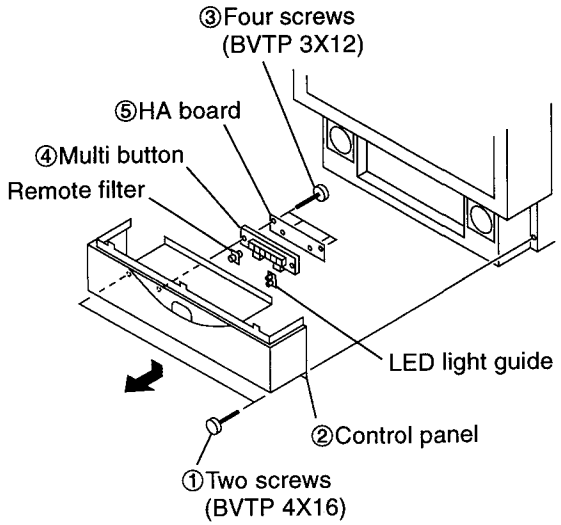
2-7. M BOARD REMOVAL

① Remove the D board. (Refer to 2-5.)

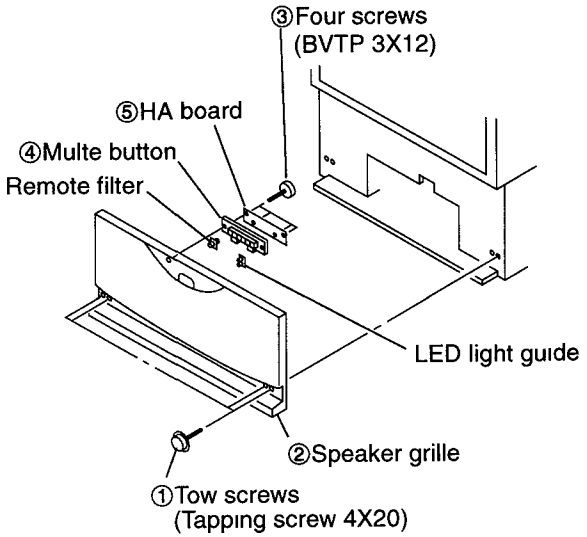
② Remove the U board. (Refer to 2-6.)



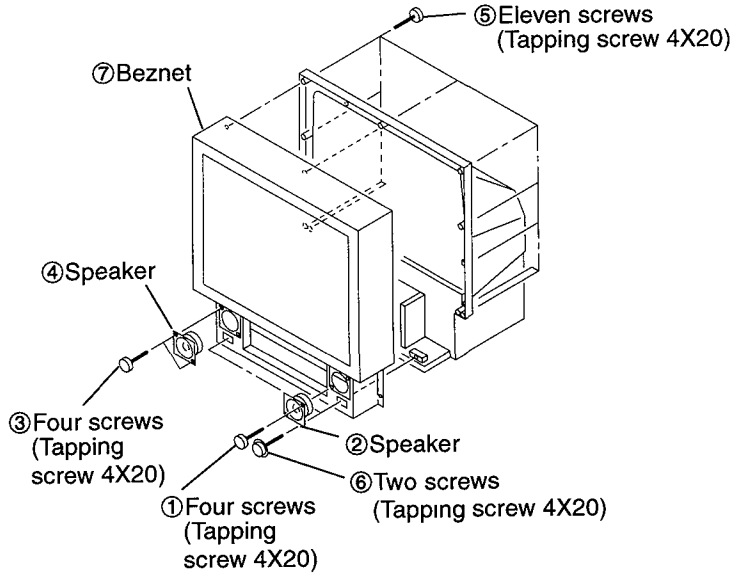
2-8-1. HA BOARD REMOVAL (KP-41T25)



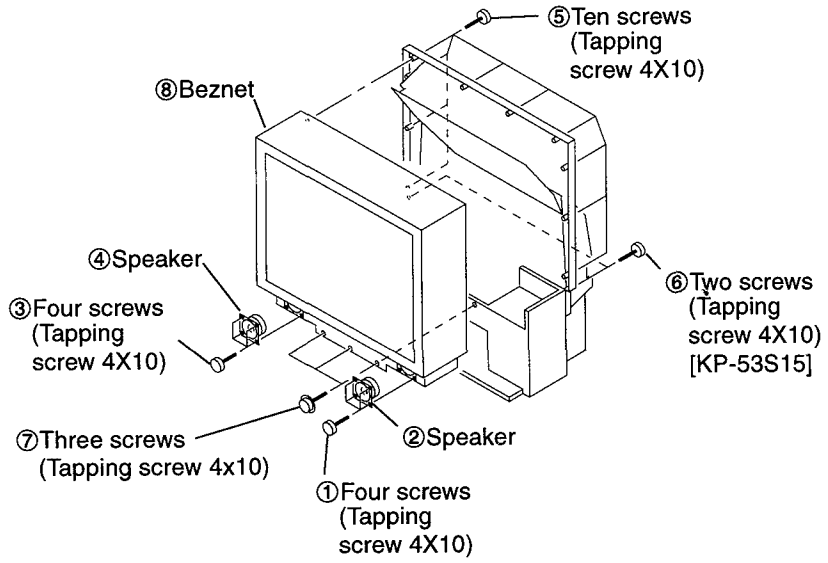
2-8-2. HA BOARD REMOVAL (KP-46S25/53S25)



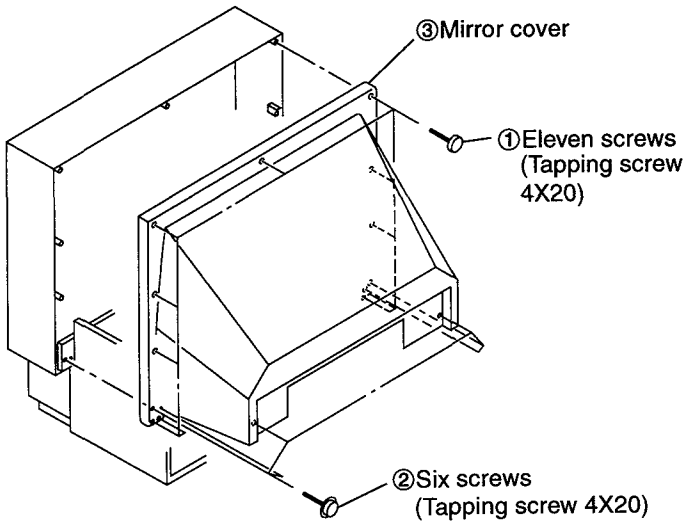
2-9-1. BEZNET REMOVAL (KP-41T25)



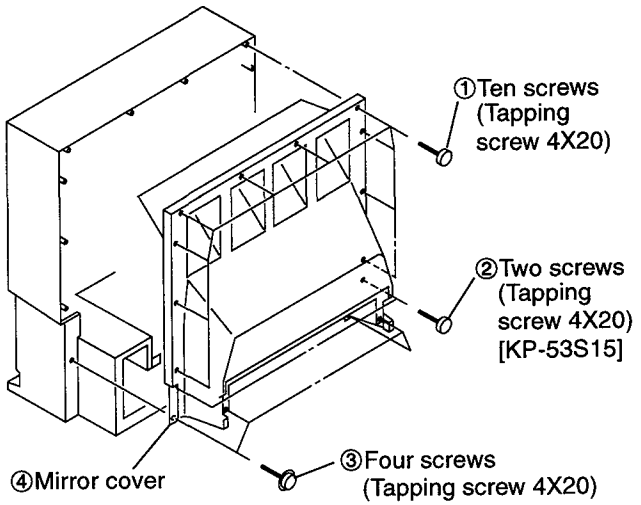
2-9-2. BEZNET REMOVAL (KP-46S25/53S25)



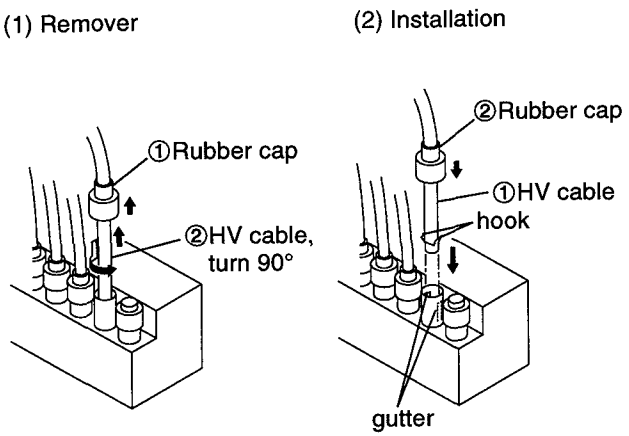
2-10-1. MIRROR COVER REMOVAL (KP-41T25)



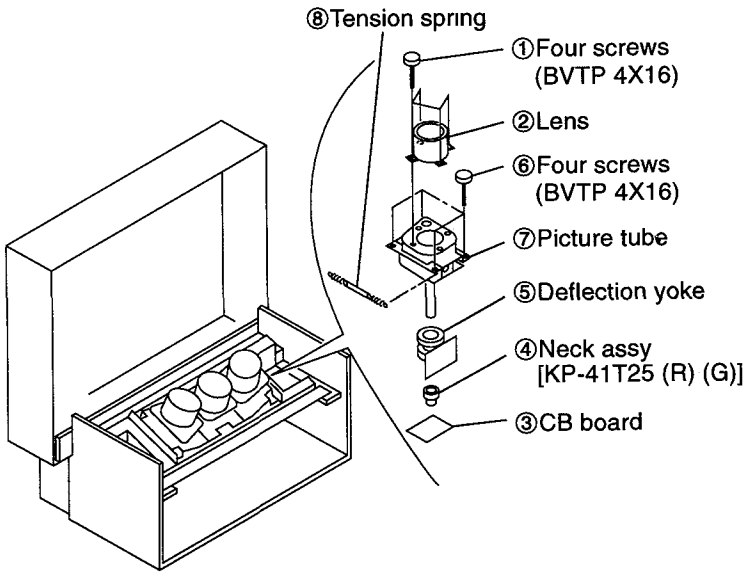
2-10-2. MIRROR COVER REMOVAL (KP-46S25/53S25)



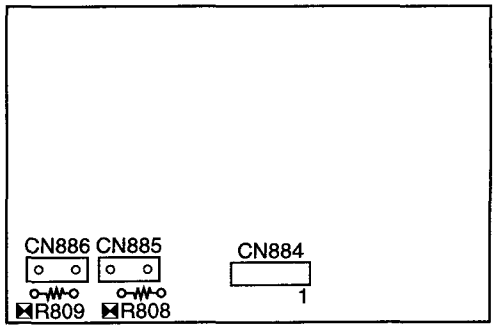
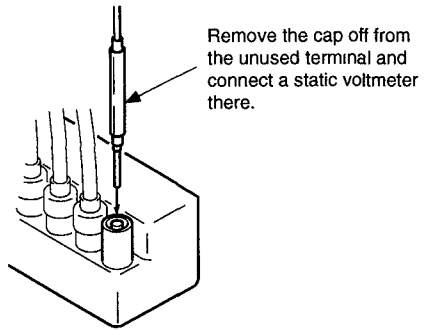
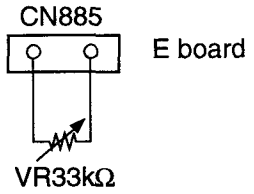
2-11.HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL



2-12. PICTURE TUBE REMOVAL

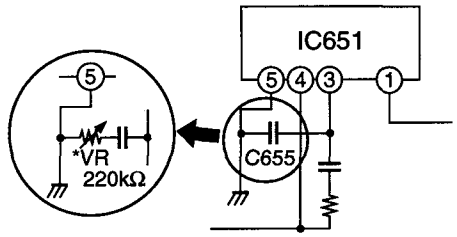
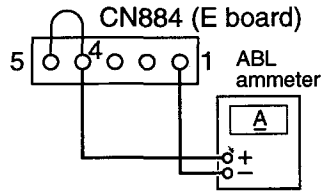


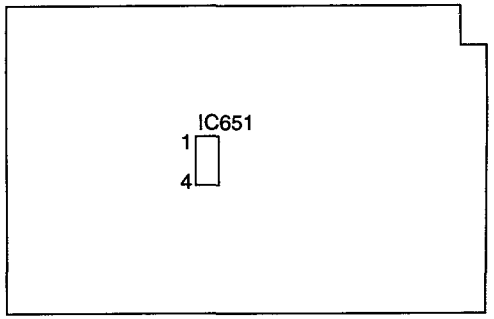
SECTION 3
SAFETY RELATED ADJUSTMENTS

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
HV HOLD DOWN CIRCUIT OPERATIONS CHECK AND ADJUSTMENT (*⧓ RESISTOR) When replacing the parts marked *◪ on the right, check the HV hold down and adjust.		*◪ marked parts C818, D804, D806, D809, D909, D912, Q915, R809, R855, R856, R857, R858, R954, R955, R983, R984, R988, R991, R995, R996, R998, T801,T803 FBT ..... E board HV Block	*⧓ R809, R988	E BOARD – COMPONENT SIDE – 
1. Remove the cap for the unconnected pin in the *high-voltage block and connect a *Static Voltmeter meter. 2. Input 130 VAC power.	*Static Voltmeter	*HV Block		* 
3. Receive the *Dot siganl and set the *PICTURE and BRIGHTNESS settings to their minimums.	*Dot pattern		*PICTURE ..... minimum BRIGHTNESS ..... minimum	
4. Connect a *33 kΩ variable resistor across the E board *CN885 connector (with the variable resistor set to its maximum).				* 

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
5. Gradually lower the value of the variable resistor and check that the hold down circuit operates at a Static Voltmeter reading of *33.7 ± 0.75 kVDC and that the rasters disappear. 6. If the hold down circuit operates and the rasters disappear at a Static Voltmeter reading of *34.45VDC or higher, remove resistor *R809 and mount a *16.0 kΩ 1/4W RN at *R988. If hold-down can not be adjusted to specification using a 16.0 kΩ resister, use a 13.0 kΩ resister. If the hold down circuit operates and the rasters disappear at a Static Voltmeter reading of *32.9 VDC or lower, remove resistor R809 and mount *6.2 kΩ 1/4W RN at *R988. 7. Check Item 5 again.			*R988 *R988	*33.7 ± 0.75 kVDC *34.45 VDC or higher *16.0 kΩ 1/4W *32.95 VDC or lower *6.2 kΩ 1/4W * CN886 (E board) R809 R988
HV REGULATION CIRCUIT CHECK AND ADJUSTMENT (*⊠ RESISTOR)			*⊠ R808, R983	
When replacing the parts marked *◪ on the right, check the HV regulation and adjust.		*◪ marked parts C918, C930, C934, C980, D902, D920, D925, Q909, R808, R851, R929, R936, R939, R942, R944, R945, R946, R947, R950, R960, R965, R967, R971, R975, R976, R982, R983, R985, R998 ..... E Board HV Block *HV Block		E BOARD – COMPONENT SIDE – CN886 CN885 CN884 1 ⊠R809 ⊠R808
1. Remove the cap for the unconnected pin in the *high-voltage block and connect a *Static Voltmeter. 2. Input 120 VAC power. 3. Receive the *Dot signal and set the *PICTURE and BRIGHTNESS settings to their minimums.	*Static Voltmeter *Dot pattern		*PICTURE ..... minimum BRIGHTNESS ..... minimum	

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
4. Check that the Static Voltmeter reading is *31. $^{+0.45}_{-0.65}$ kVDC. 5. If the Static Voltmeter reading is *30.4 kV or lower, remove resistor *R808 and mount *5.6 kΩ 1/4W RN at *R983. 6. If the Static Voltmeter reading is *31.4 KV or higher, remove resistor *R808 and mount *8.2 kΩ 1/4W RN at *R983. 7. If the Static Voltmeter reading is *32.0 kV or higher, remove resistor *R808 and mount *10.0 kΩ 1/4W RN at *R983. 8. If any of Items 5, 6 or 7 has been implemented, check Item 4 again.			*R983 *R983 *R983	*31.0 $^{+0.45}_{-0.65}$ kVDC *30.4 kV or lower *5.6 kΩ 1/4W *31.4 KV or higher *8.2 kΩ 1/4W *32.0 kV or higher *10.0 kΩ 1/4W * CN885 (E board) R808 R983
HV HOLD DOWN AND HV REGULATOR SIMPLE ADJUSTMENT It is normally desirable that the HV hold down and HV regulation checks use a high-voltage meter. However, sometime one is not available, for example in the field, below is a simple adjustment method. When replacing parts with the ◪ mark, replace both the resistors with the ⊠ mark *R808 (R988) and *R809 (R983) with resistors one rank lower in the E-12 series. Do not replace just one of these resistors! Always replace both with resistors one rank lower.			*R808 (R988) *R809 (R983)	* E board CN886 CN885 R809 R808 R988 R983

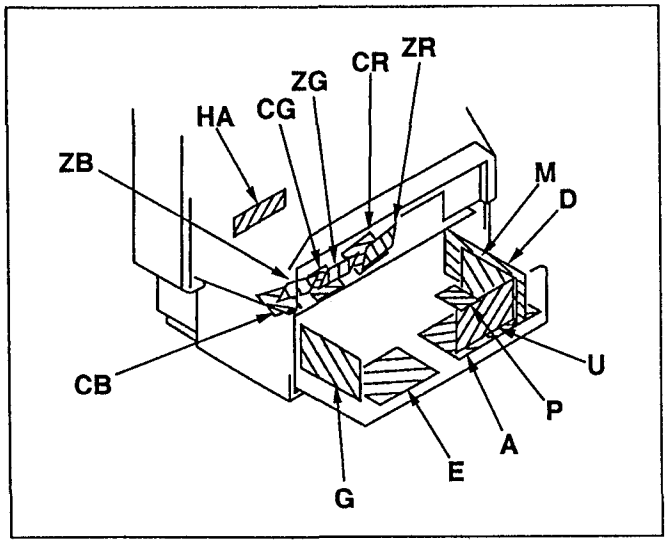
ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
OVERVOLTAGE PROTECTION (OVP) OPERATIONS CHECK				
1. Connect a *220 kΩ variable resistance rheostat to the G board C655 (between Pins ③ and ⑤ of IC651).				* 
2. Input *120.0 ± 1.0 VAC, 60 Hz power.				*120.0 ± 1.0 VAC, 60 Hz
3. Receive the *Dot signal and set the *PICTURE and BRIGHTNESS settings to their minimums.	*Dot pattern		*PICTURE ..... minimum BRIGHTNESS ..... minimum	
4. Gradually lower the value of the connected variable resistance and check that when the +B line *voltage is *143.5 ± 5.5 VDC, the overvoltage circuit operates and the rasters disappear.	*Digital Multimeter			*143.5 ± 5.5 VDC
5. Remove the variable resistor and check the +B line voltage.				
BEAM CURRENT (∑Ik) PROTECTION CIRCUIT CHECK				
1. Connect the *ABL ammeter between *Pins ① and ④ of the CN884 on the E board. Have Pins ② and ③ open.	*Ammeter			* 
2. Input *120.0 ± 1.0 VAC, 60 Hz power.				*120.0 ± 1.0 VAC, 60 Hz
3. Receive a *monoscope signal and set the *PICTURE and BRIGHTNESS settings to their minimums.	*Monoscope pattern		*PICTURE ..... minimum BRIGHTNESS ..... minimum	

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
4. Gradually raise the *PICTURE and BRIGHTNESS settings and check that below an *ABL current of 3.35 mA (including dark current), the beam current protection circuit operates and the rasters disappear.			*PICTURE BRIGHTNESS	*Less than 3.35 mA
+B, +B MAX CHECK When replacing the G board IC651, check the following.				E BOARD – COMPONENT SIDE – 
1. Input *120.0 ± 1.0 V, 60 Hz power. 2. Receive the *Dot signal and set the *PICTURE and BRIGHTNESS settings to their minimums.	*Dot pattern		*PICTURE ..... minimum BRIGHTNESS ..... minimum	*120.0 ± 1.0 V, 60 Hz
3. Check that the *+B line voltage is now *135.0 ± 2.0 VDC. 4. Set the power supply to *130.0 $^{+2.0}_{-0}$VAC. 5. Check that the *+B line voltage is *137.0 VDC max. 6. If either 3 or 5 is not satisfied, replace IC651 again.		*CN681 pin ① *CN681 pin ①		*135.0 ± 2.0 VDC *130.0 $^{+2.0}_{-0}$VAC *Less than 137.0 VDC

MEMO

SECTION 4
DIAGRAMS

4-1. CIRCUIT BOARDS LOCATION



4-2. PRINTED WIRING BOARD AND SCHAMATIC DIAGRAMS

Note :

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms.
  kΩ = 1000 Ω, MΩ = 1000kΩ
- Indication of resistance, which dose not have one for rating electrical power, is as follows.

Pitch : 5mm Rating electrical power : ¼W

- : nonflammable resistor.
- : fusible resistor.
- △ : internal component.
- : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth-chassis.
- The components identified by ⊠ in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
  Should replacement be required, replace only with the value originally used.
- When replacing components identified by ◪, make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by ⊠ and repeat the adjustment until the specified value is achieved.
  (Refer to R808, R809, R983 and R988 adjustment on Page 29 – 33)
- When replacing the part in below table, be sure to perform the related adjustment.

Part replaced (◪)	Adjustment (⊠)
HVBlock Q915, D804, D806, D809, D909, D912, C818, R809, R855, R856, R857, R858, R954, R955, R983, R984, R988, R991, R995, R996, R998, T801(FBT), T803 .... .E BOARD	HV HOLD-DOWN (R809, R988)
HV Block, Q909, D902, D920, D925, C918, C930, C980, R808, R851, R929, R936, R939, R942, R944, R945, R946, R947, R950, R960, R965, R967, R971, R975, R976, R982, R983, R985, R998... ...E BOARD	HV Reagurator (R808, R983)

Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RW	NONFLAMMABLE WIREWOUND
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: ※	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

- As to the voltage volue shown by the semiconductors on the Schematic Diagram, see the another list.
- Readings are taken with a color-bar signal input.
- Readings are taken with a 10MΩ digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
  * : Measurement impossibillity.
- Circled numbers are waveform references.
- ▬▬ : B + bus.
- ▬ ▬ : B – bus.
- ⇨ : signal path.(RF)

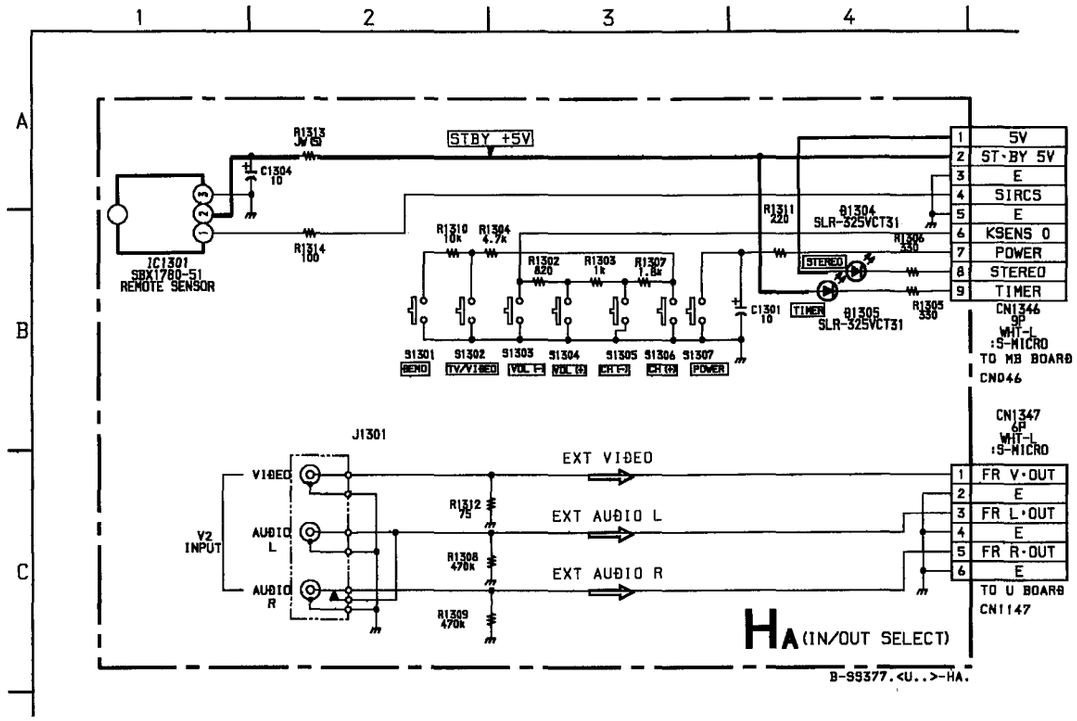
Note: The symbol ⊣⊢ display is on the component side.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

The symbol ⊣⊢ indicate fast operating fuse. Replace only with fuse of same rating as maked.

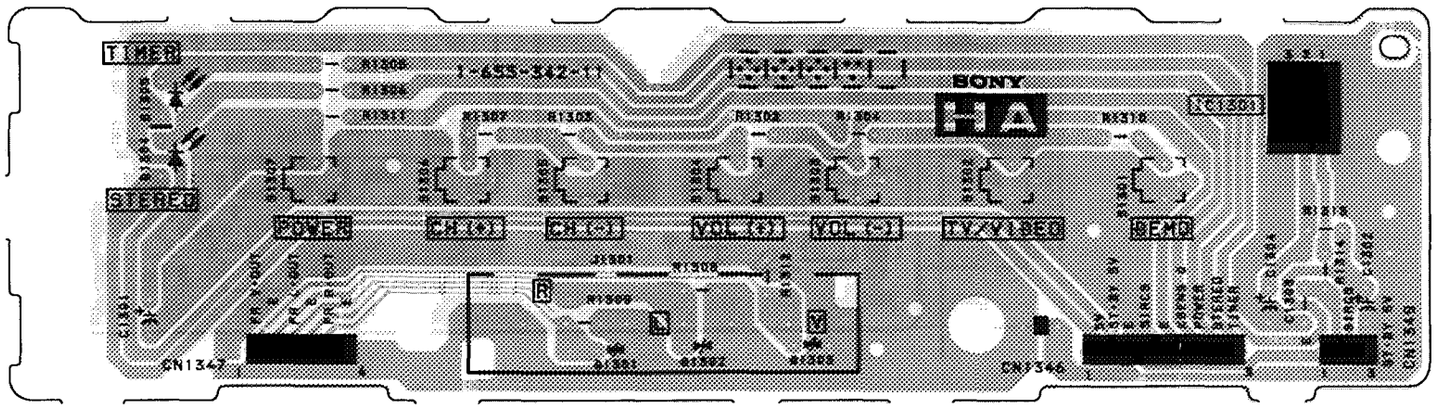
Note: Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Le symbole ⊣⊢ indique une fusible a action rapide. Doit etre remplacee par une fusible de meme yaleur, comme maque.



HA [IN/OUT SELECT]

– HA BOARD –



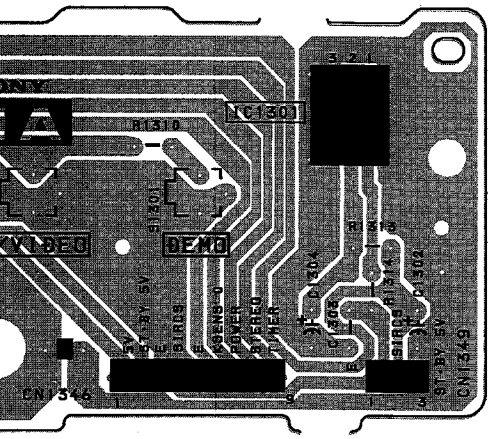
5V
BY 5V
E
IRCS
E
ENS 0
OWER
EREO
IMER

N1346
6P
HT-L
-MICRO
MB BOARD
46

N1347
6P
HT-L
-MICRO

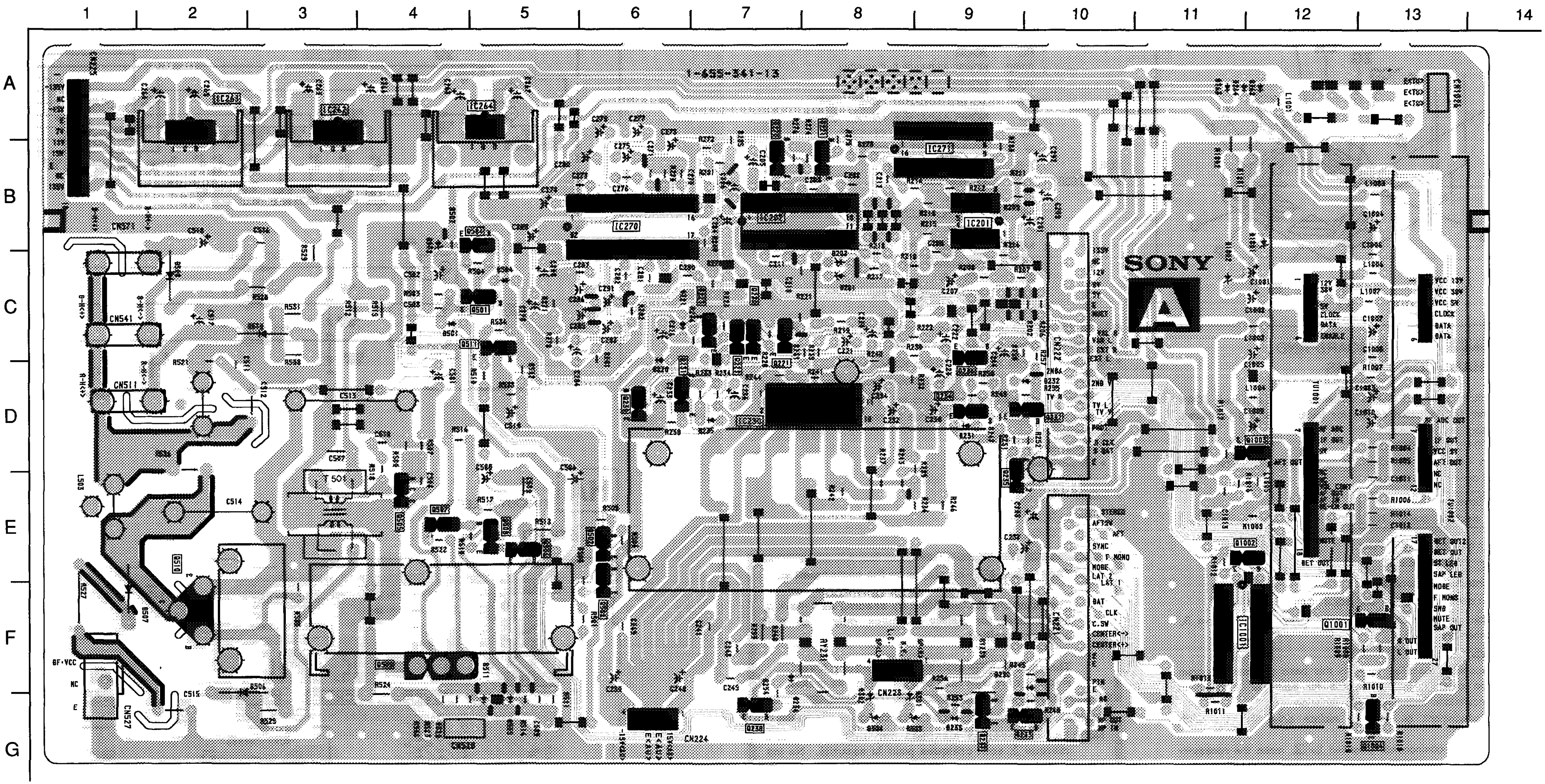
V·OUT
E
L·OUT
E
R·OUT
E

U BOARD
147

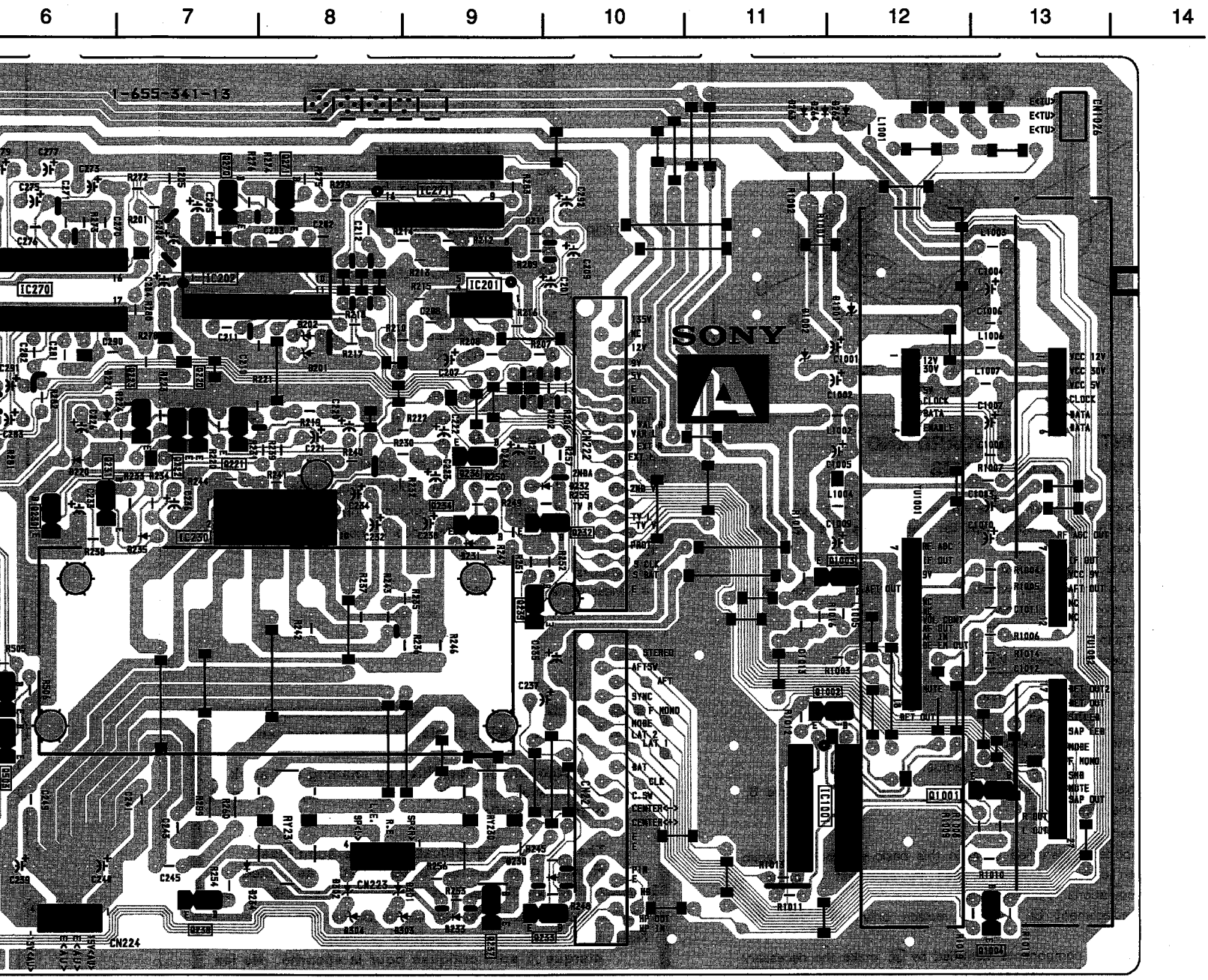


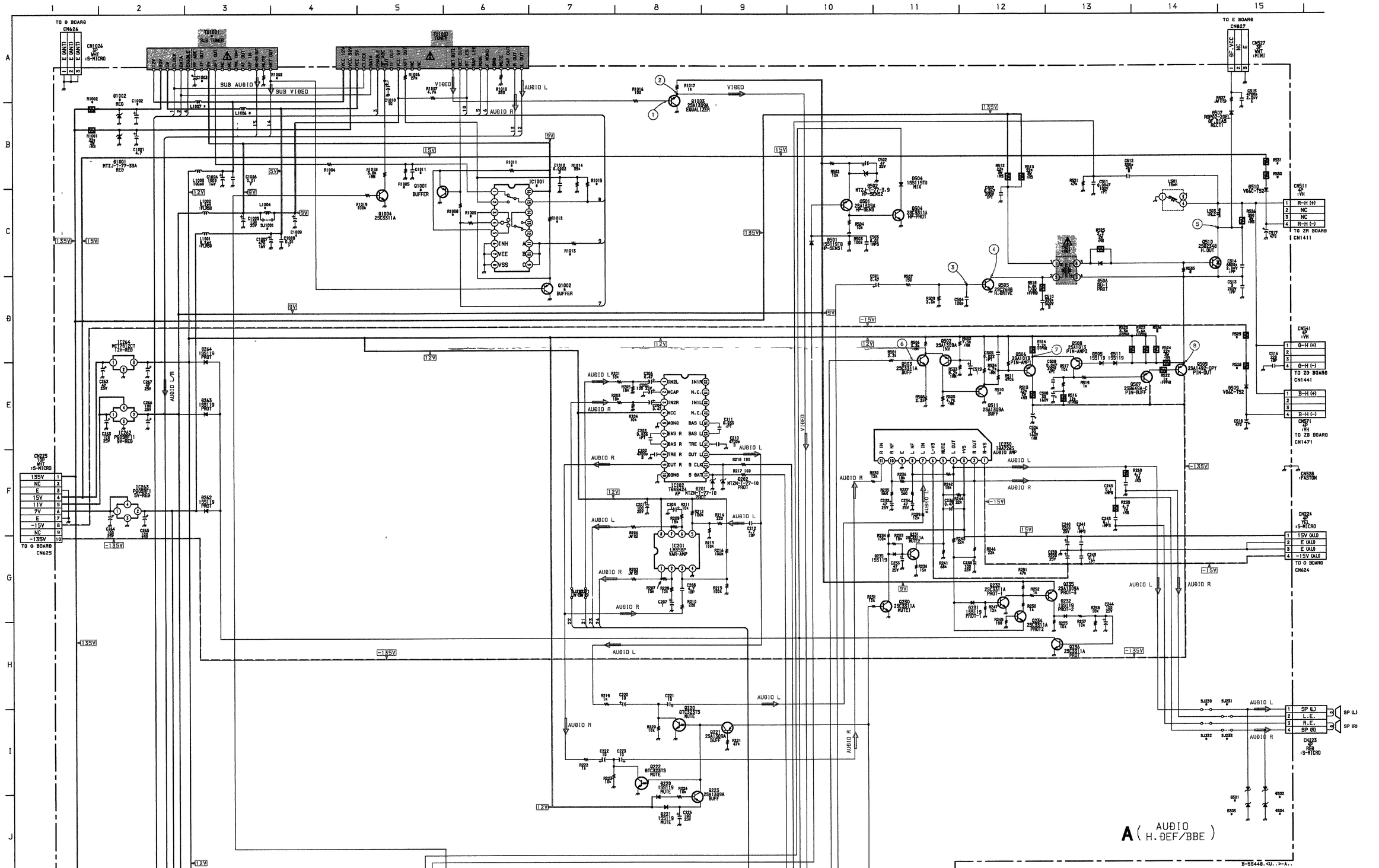
A [AUDIO, H•DEF / BBE]

– A BOARD –



1-655-341-13
SONY
A
IC263
IC262
IC264
IC270
IC271
IC201
IC1001
CN541
CN511
CN527
CN224
CN228
T 501
C514
C515
C513
L503
Q510
Q501
Q1001
Q1002
Q1003
Q238
R1006
R1010
R1011
R1005
L1007
VCC 12V
VCC 5V
CLOCK
DATA
SYNC
F MONO
LAT 2
LAT 1
CLK
C.SW
CENTER<->
CENTER<+>
SAP OUT
MUTE
BF·VCC
NC
E

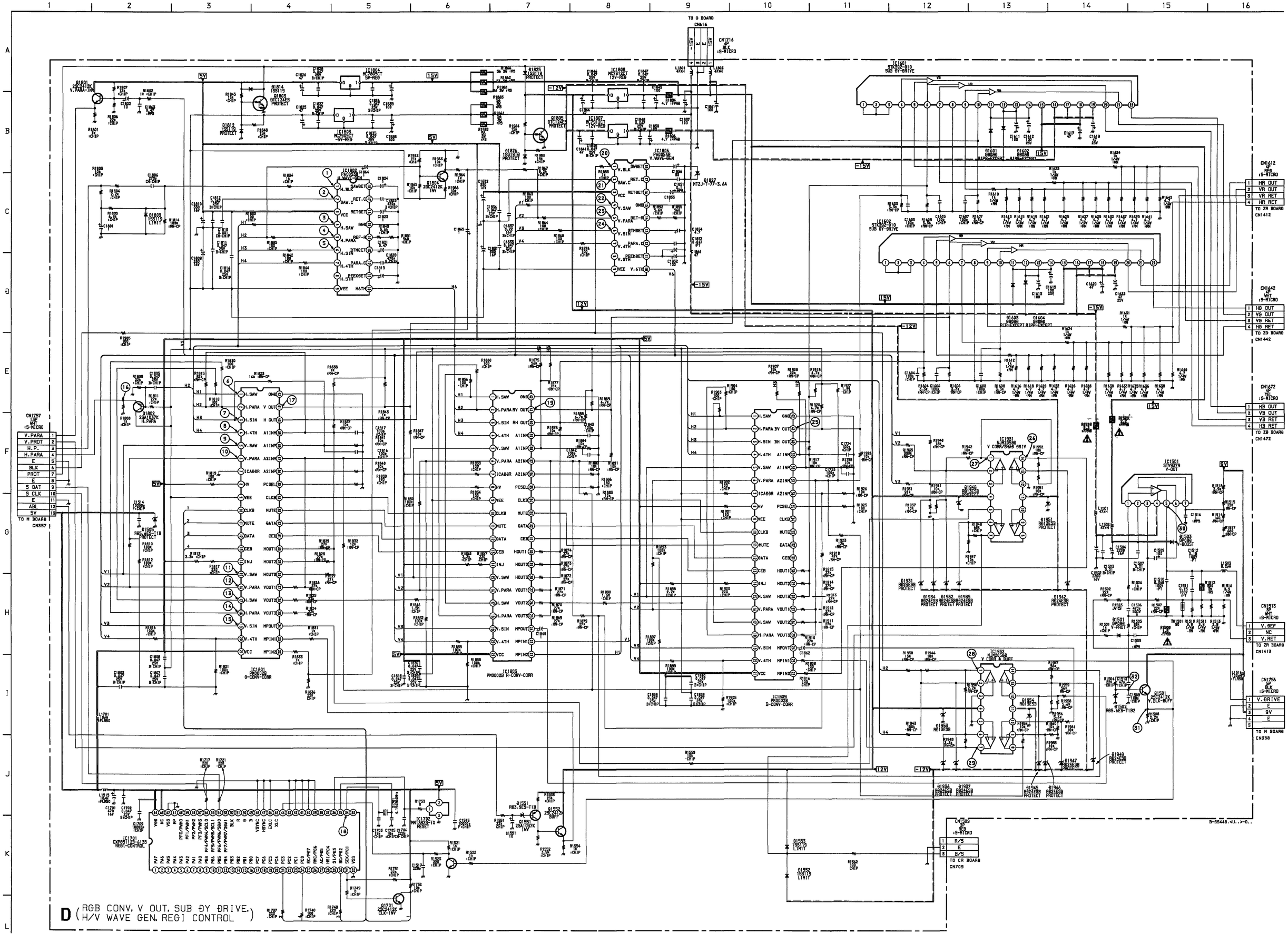

6
7
8
9
10
11
12
13
14
1-655-341-13
SONY
IC270
IC201
IC250
IC1001
Q1001
CN223
CN224



A BOARD * MARK

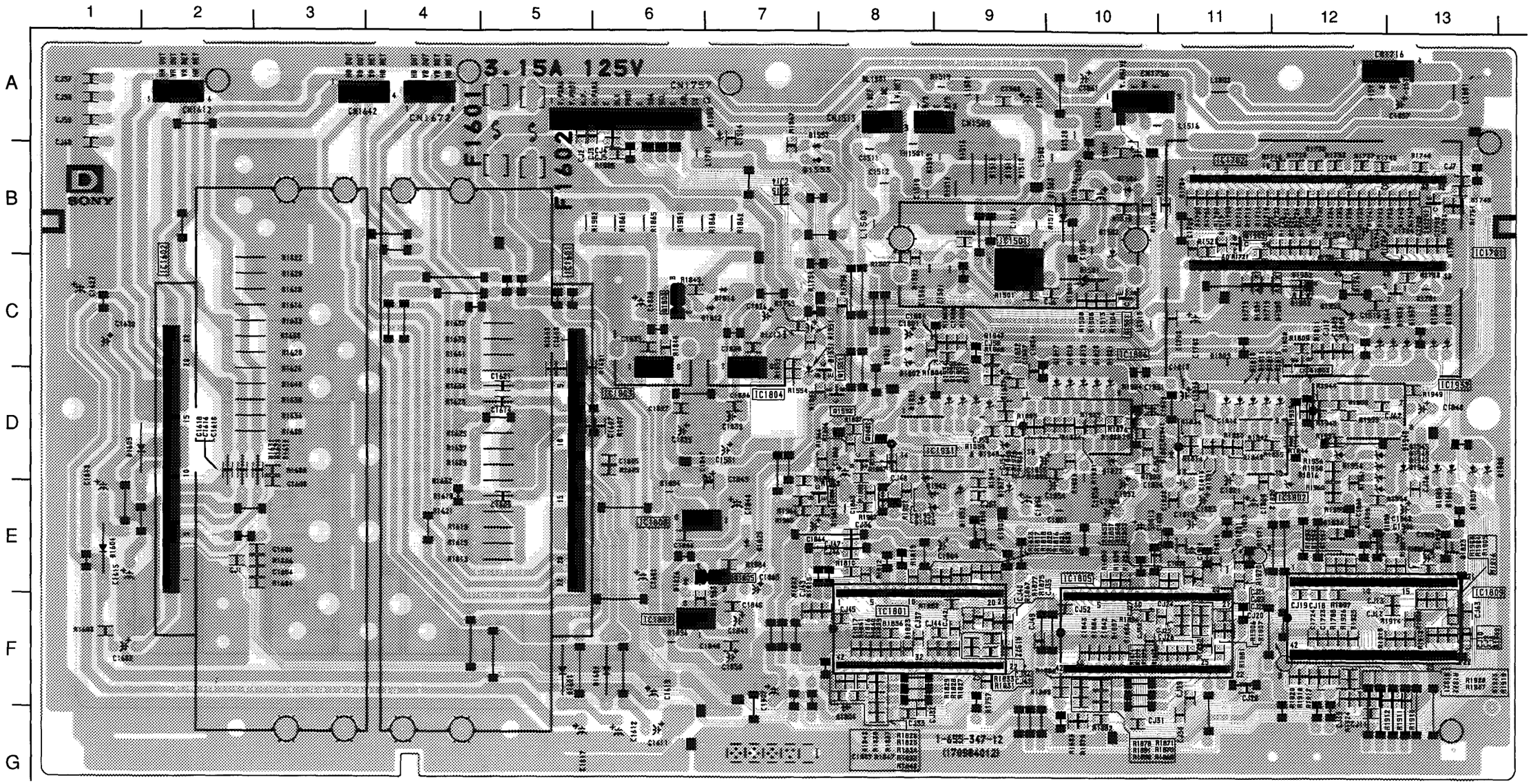
	KP-46S17/53S17(CND)	KP-46S25/53S25(US)	KP-41T25(US/CND)		KP-46S17/53S17(CND)	KP-46S25/53S25(US)	KP-41T25(US/CND)
C1002	-	10	10	R529	270 3W	270 3W	150 3W
C1003	-	22	22	R530	270 3W	270 3W	120 3W
C1009	-	10	10	R531	270 3W	270 3W	150 3W
C1011	-	0.0022	0.0022	R1002	-	22K 2W	22K 2W
D301	MTZJ-T-77-22	-	-	R1003	-	330	330
D302	MTZJ-T-77-22	-	-	R1004	-	27K	27K
D303	MTZJ-T-77-22	-	-	R1005	-	39K	39K
D304	MTZJ-T-77-22	-	-	R1008	100	-	-
D1002	-	MTZJ-T-77-33A	MTZJ-T-77-33A	R1009	-	100	100
IC1001	-	BU4053BC	BU4053BC	R1011	-	4.7K	4.7K
L1004	-	8.2μH	8.2μH	R1012	-	4.7K	4.7K
L1006	-	8.2μH	8.2μH	R1013	-	100	100
L1007	-	8.2μH	8.2μH	R1015	JW(5)	-	-
Q1001	-	2SA1309A	2SA1309A	SJ1001	JW(5)	-	-
Q1002	-	2SA1309A	2SA1309A	TU1001	-	BTF-LA401	BTF-LA401
R528	270 3W	270 3W	120 3W				

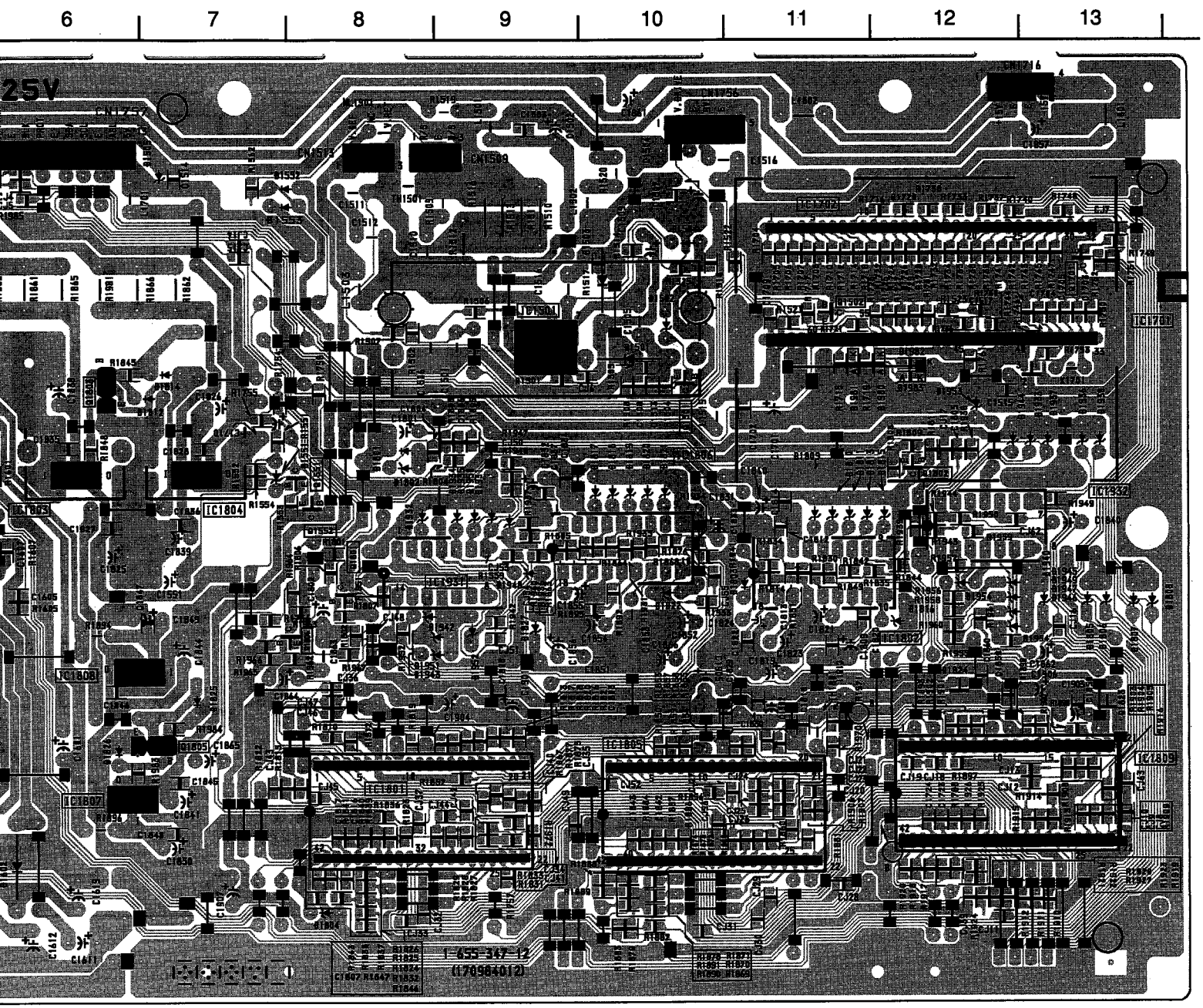
- NOT MOUNT


TO O BOARD
CN616
CN1716
BLK
IS-MICRO
IC1804
MC78S05CT
5V-REG
IC1808
MC78L12CT
12V-REG
IC1807
MC79L12CT
-12V-REG
IC1805
MC79S05CT
-5V-REG
IC1401
STK392-810
SUB DY-DRIVE
IC1402
STK392-810
SUB DY-DRIVE
IC1806
PA00058
V.WAVE-GEN
IC1802
PA00058
H.WAVE-GEN
IC1803
PA00058
H-CONV-CORR
IC1805
PM00028
R-CONV-CORR
IC1809
PM00028
B-CONV-CORR
IC1801
PM00028
G-CONV-CORR
IC1931
NJM2058D
V CONV/SHAR DRIV
IC1932
NJM2058D
V CORR & BUFF
IC1501
STV9379
V-OUT
IC1701
CXD8511Z-6139
REGI-CONTROL
IC1702
MN38925-TX
RESET
CN1257
CN357
CN1612
CN1412
CN1642
CN1442
CN1672
CN1472
CN1513
CN1413
CN1756
CN358
CN1509
CN709
TO ZR BOARD
TO ZG BOARD
TO ZB BOARD
TO M BOARD
TO CR BOARD
D (RGB CONV, V OUT, SUB DY DRIVE, H/V WAVE GEN, REGI CONTROL)
B-8848.<U..>-0..

D [RGB CONV, V OUT, SUB DY DRIVE, H/V WAVE , REGI CONTROL]

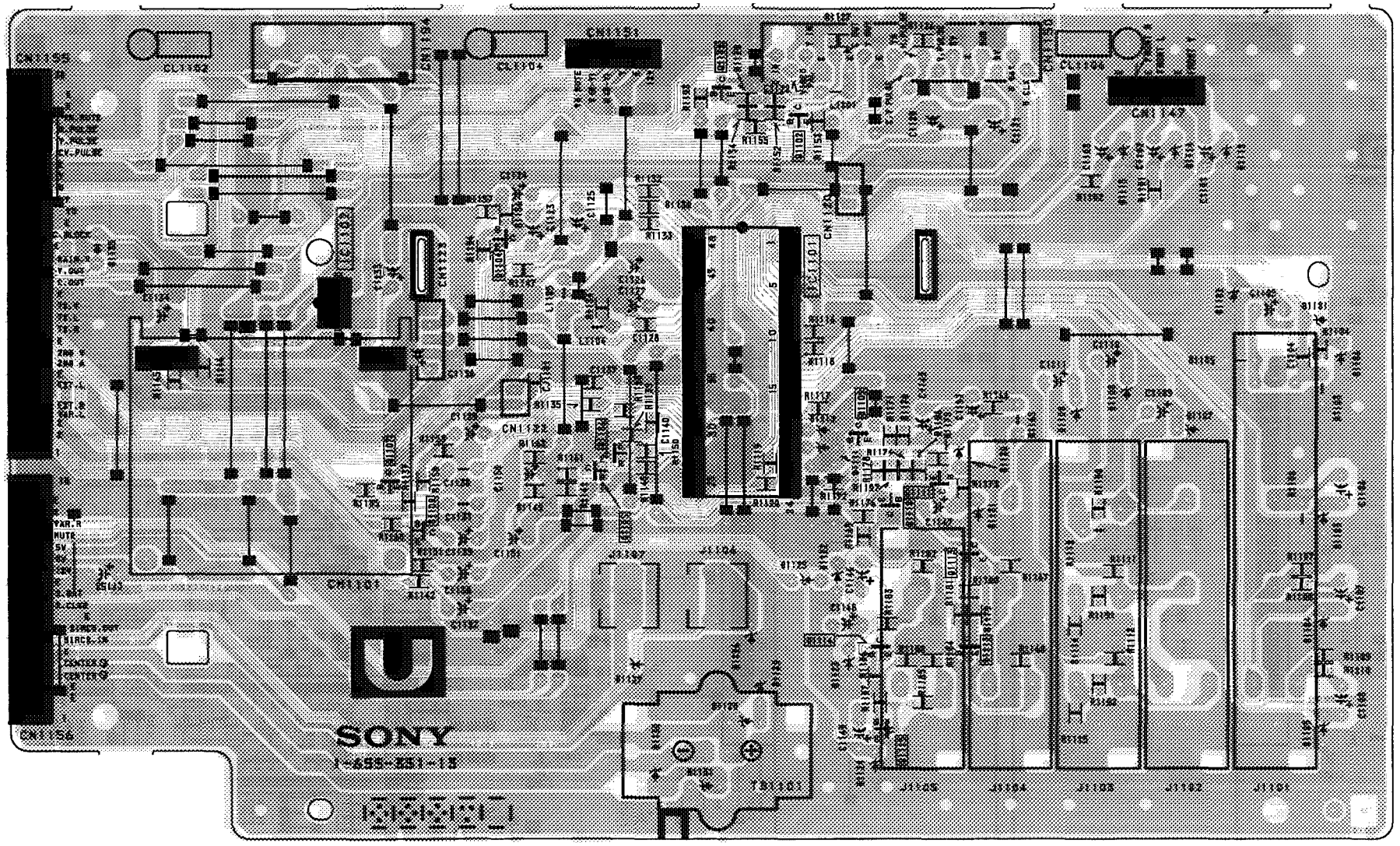
– D BOARD –



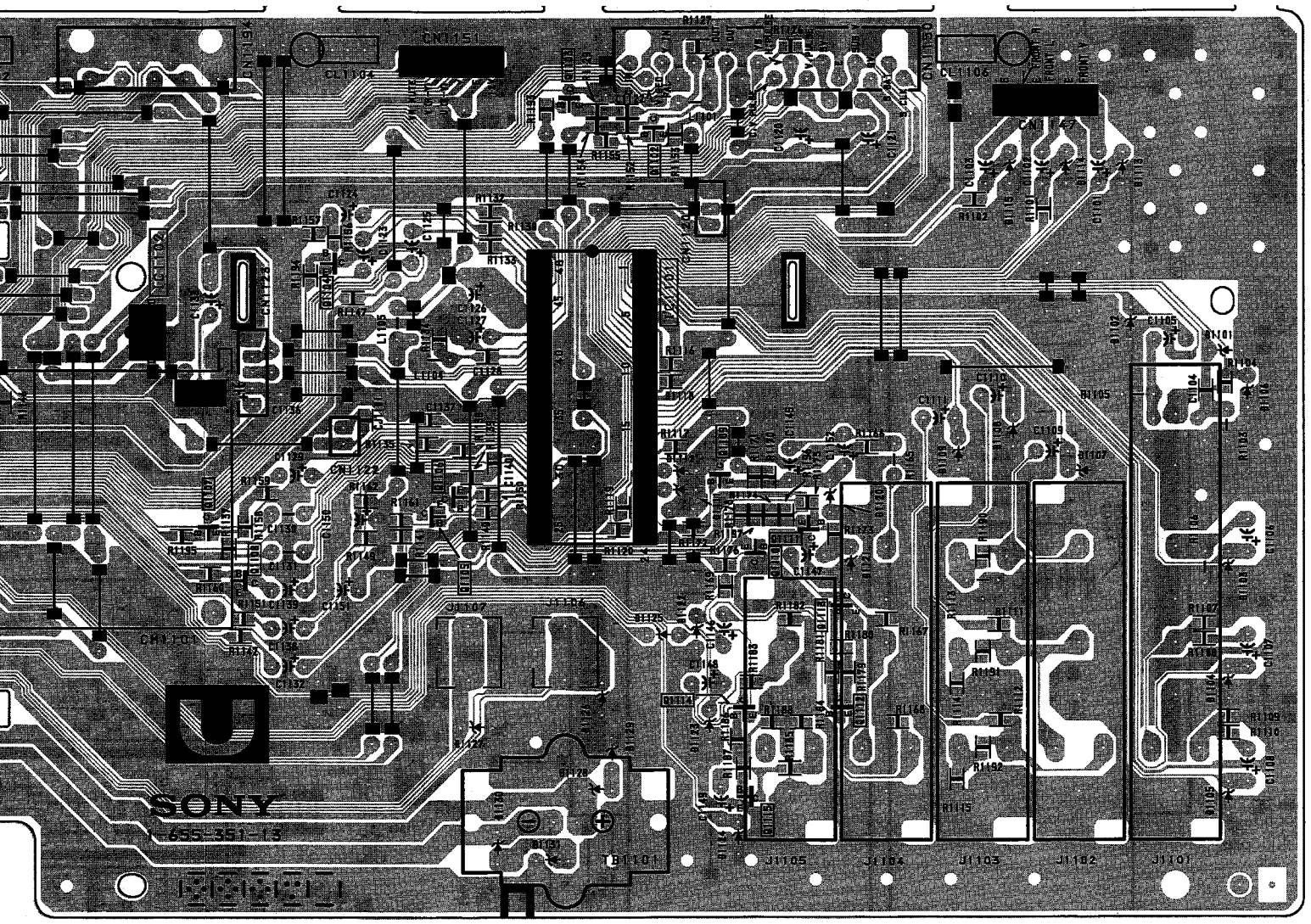

6
7
8
9
10
11
12
13
2.5V
IC1804
IC1808
IC1807
IC1809
1-655-347-12
(1709840 12)

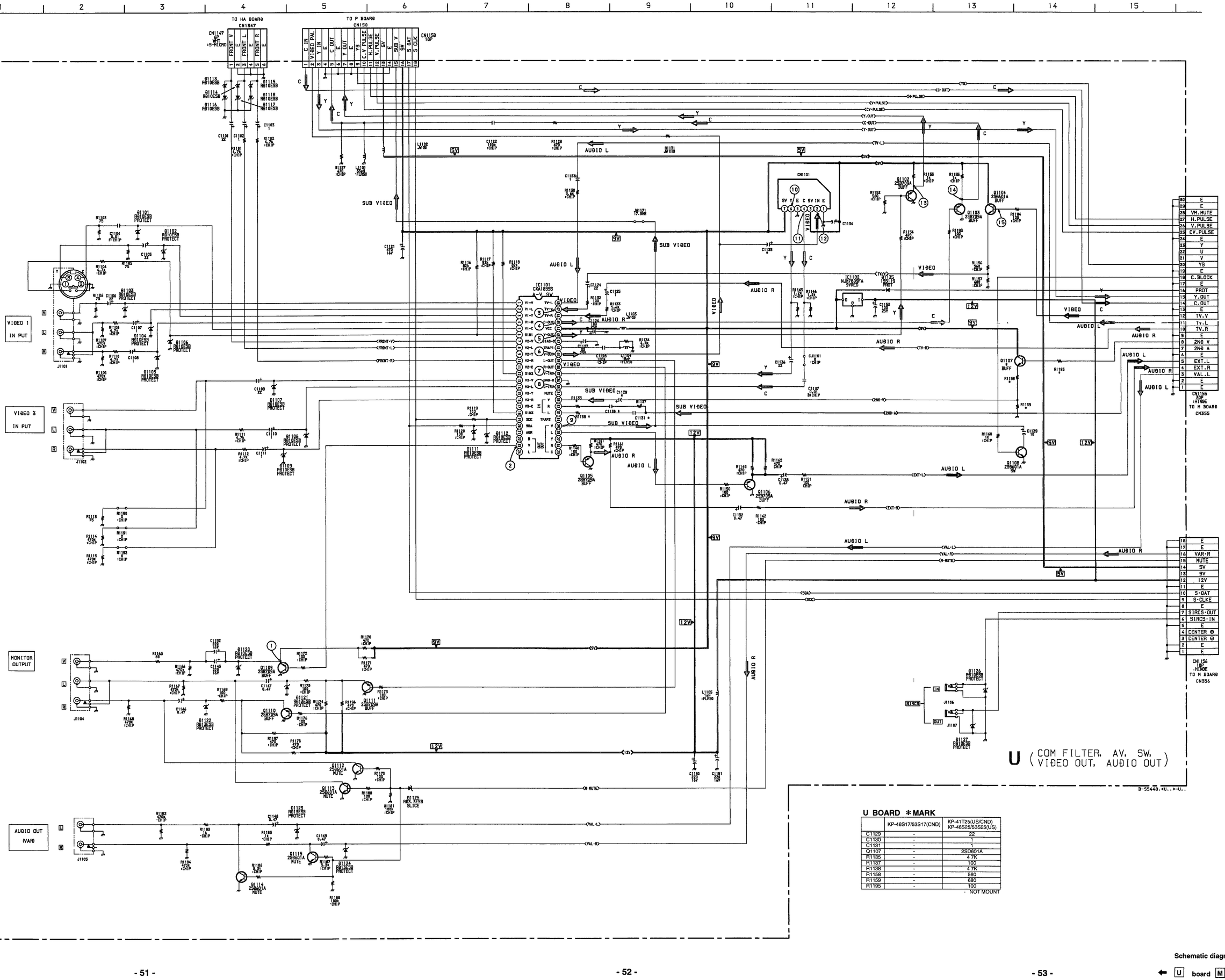
U [COM FILTER, AV, SW, VIDEO IN/OUT, AUDIO IN/OUT]

– U BOARD –



AV, SW,
, AUDIO IN/OUT]

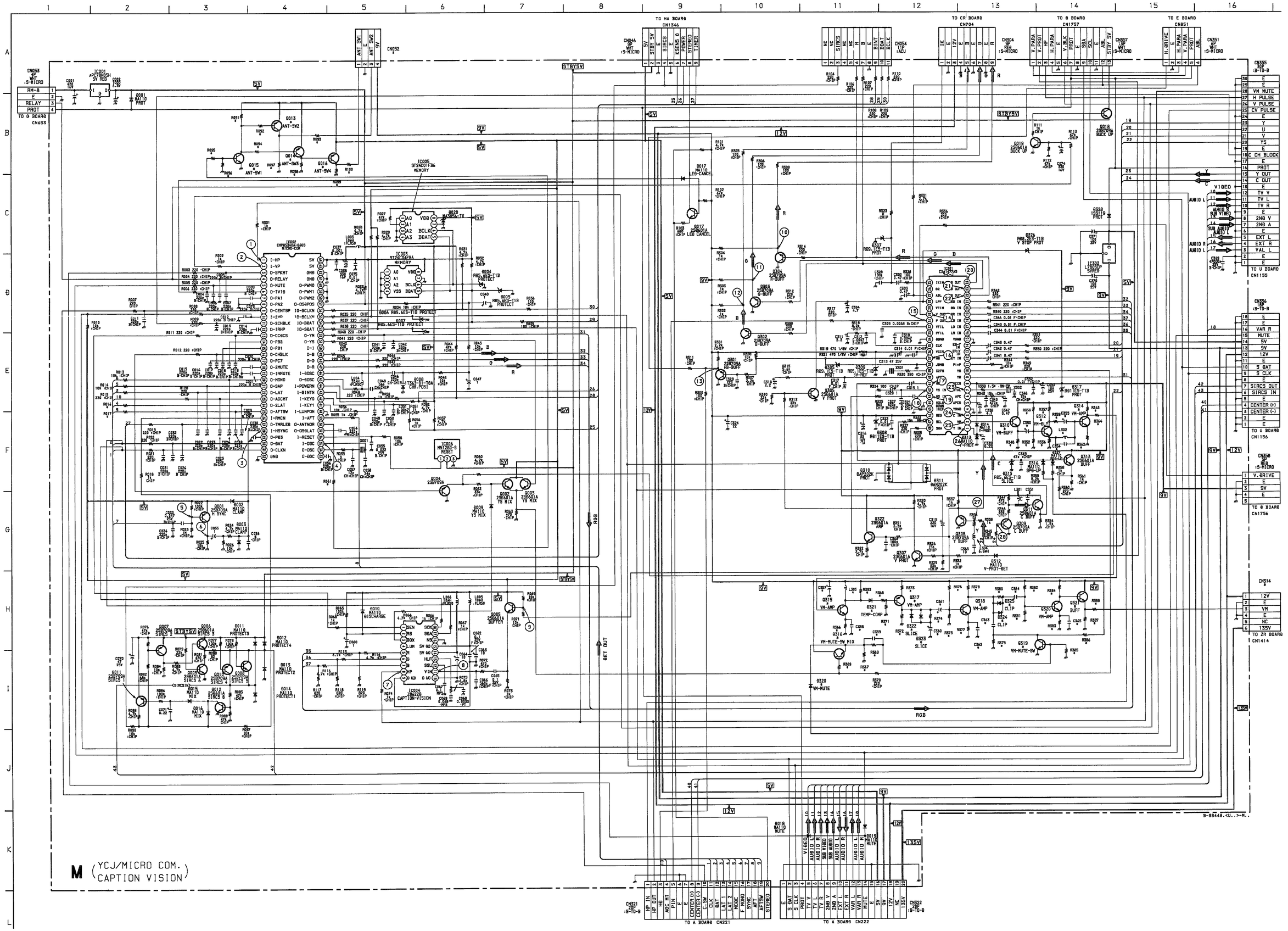




U BOARD ＊MARK

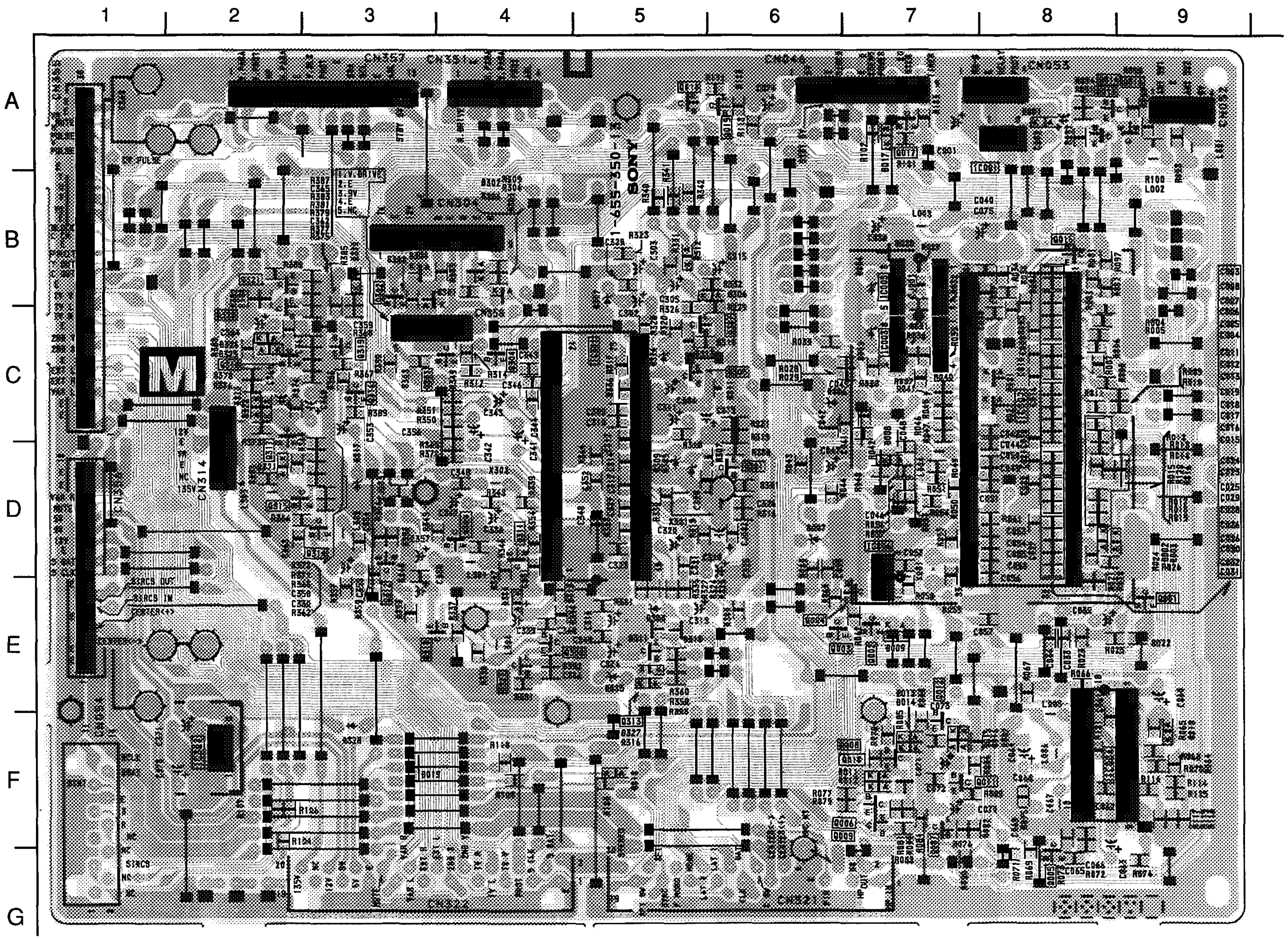
	KP-46S17/53S17(CND)	KP-41T25(US/CND) KP-46S25/53S25(US)
C1129	-	22
C1130	-	1
C1131	-	1
Q1107	-	2SD601A
R1135	-	4.7K
R1137	-	100
R1138	-	4.7K
R1158	-	560
R1159	-	680
R1195	-	100

- NOT MOUNT


M (YCJ/MICRO COM. CAPTION VISION)
TO HA BOARD CN1346
TO CR BOARD CN704
TO B BOARD CN1757
TO E BOARD CN851
TO U BOARD CN1155
TO U BOARD CN1156
TO B BOARD CN1756
TO ZR BOARD CN1414
TO A BOARD CN221
TO A BOARD CN222
IC001 AN7809SH 9V REG
IC002 CXA2061AS-S40S RGB+OSD
IC003 ST24C08FB6 MEMORY
IC004 ST24C16FB6 MEMORY
IC005 ST24C02FB6 MEMORY
IC006 MN1280-S RESET
IC007 CXA1645S-T13B SYNCRO
IC008 CXA1191S-T13B V-OUT
IC009 CXA1191S-T13B H-OUT
IC010 CXA1191S-T13B SLICE
IC011 CXA1277AS VIDEO
IC012 CXA1645S-T13B SYNCRO
IC013 CXA1191S-T13B V-OUT
IC014 CXA1191S-T13B H-OUT
IC015 CXA1191S-T13B SLICE
IC016 CXA1277AS VIDEO
IC024 78A228 CAPTION-VISION
RGB
BET OUT
STBY5V
5V
9V
12V
135V

M [YCJ/MICRO COM, CAPTION VISION]

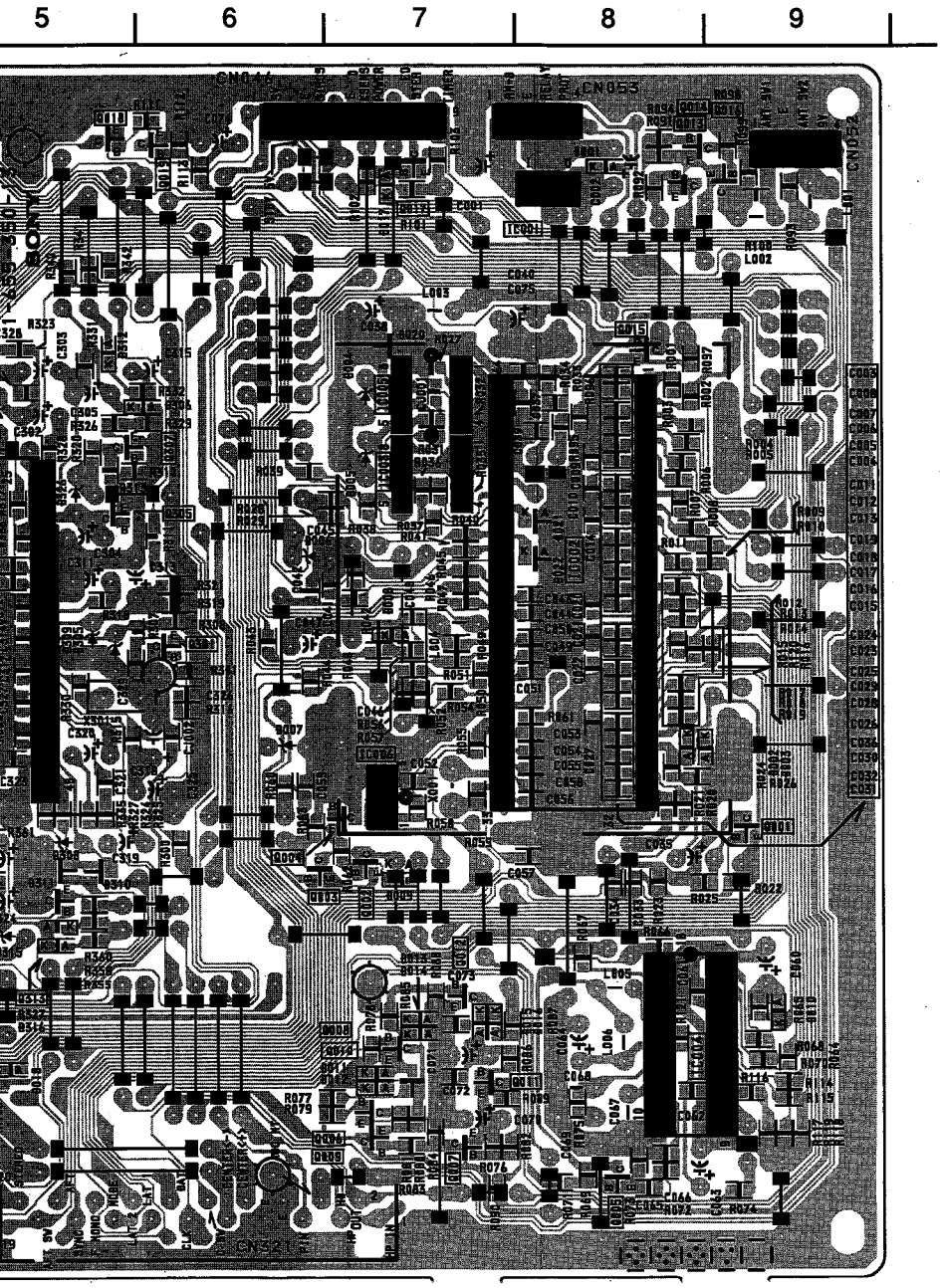
– M BOARD –



M BOARD ＊MARK

	KP-41T25(US/CND)	KP-46S17/53S17(CND)	KP-46S25/53S25		KP-41T25(US/CND)	KP-46S17/53S17(CND)	KP-46S25/53S25		KP-41T25(US/CND)	KP-46S17/53S17(CND)	KP-46S25/53S25
C350	10	-	-	Q312	2SD601A	-	-	R369	3.3K	-	-
C354	22P	-	-	Q314	2SD601A	-	-	R371	1.0K	-	-
C355	22	-	-	Q315	2SD601A	-	-	R372	1.2K	-	-
C357	47 25V	-	-	Q316	2SD601A	-	-	R373	270	-	-
C358	15P	-	-	Q317	2SB709A	-	-	R374	33K	-	-
C359	220P	-	-	Q318	2SD601A	-	-	R375	12K	-	-
C360	10	-	-	Q319	2SD601A	-	-	R376	68K	-	-
C361	10	-	-	Q320	2SD601A	-	-	R377	560	-	-
C362	22P	-	-	Q321	2SD601A	-	-	R378	2.7K	-	-
C363	0.001	-	-	R348	1.0K	-	-	R379	27K	-	-
C364	10	-	-	R352	2.2K	-	-	R380	100K	-	-
C365	22P	-	-	R353	6.8K	-	-	R381	8.2K	-	-
CN314	6P	-	-	R356	180	-	-	R382	33K	-	-
D320	MA110	-	-	R357	180	-	-	R383	560	-	-
D321	MA110	-	-	R359	330	-	-	R384	1.5K	-	-
D322	MA110	-	-	R362	270	-	-	R385	33K	-	-
D323	MA110	-	-	R363	1.0K	-	-	R386	1.0M	-	-
D324	MA110	-	-	R364	100	-	-	R387	1.0K	-	-
D325	MA110	-	-	R366	1.5K	-	-	R388	100	-	-
IC002	CXP85332A-046S	CXP85340A-06S	CXP85332A-046S	R367	2.2K	-	-	R389	220	-	-
Q310	2SD601A	-	-	R368	100	-	-	R393	1K	-	-

- NOT MOUNT

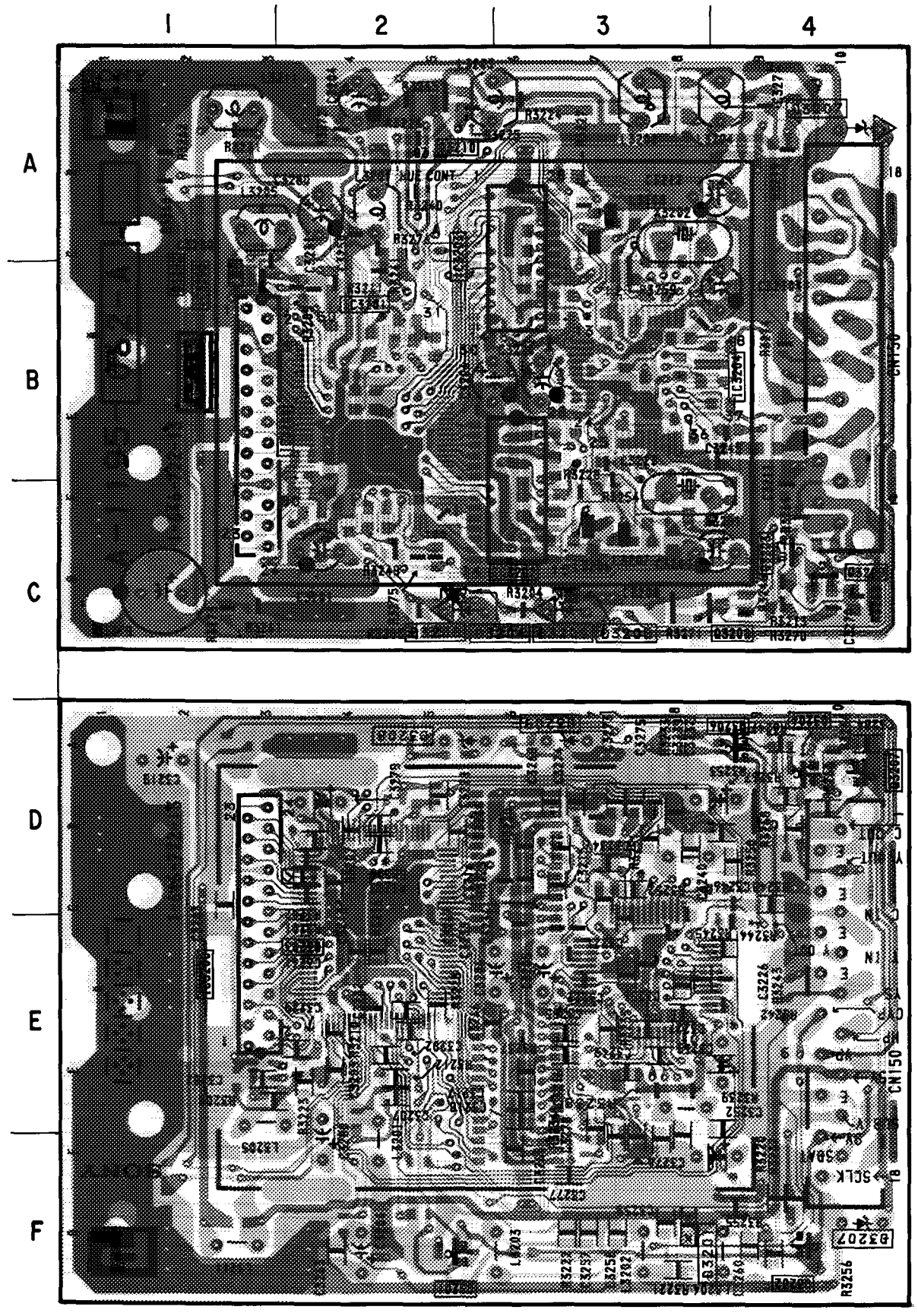


CND)	KP-46S17/53S17(CND)	KP-46S25/53S25		KP-41T25(US/CND)	KP-46S17/53S17(CND)	KP-46S25/53S25
	-	-	R369	3.3K	-	-
	-	-	R371	1.0K	-	-
	-	-	R372	1.2K	-	-
	-	-	R373	270	-	-
	-	-	R374	33K	-	-
	-	-	R375	12K	-	-
	-	-	R376	68K	-	-
	-	-	R377	560	-	-
	-	-	R378	2.7K	-	-
	-	-	R379	27K	-	-
	-	-	R380	100K	-	-
	-	-	R381	8.2K	-	-
	-	-	R382	33K	-	-
	-	-	R383	560	-	-
	-	-	R384	1.5K	-	-
	-	-	R385	33K	-	-
	-	-	R386	1.0M	-	-
	-	-	R387	1.0K	-	-
	-	-	R388	100	-	-
	-	-	R389	220	-	-
	-	-	R393	1K	-	-

- : NOT MOUNT

P [PICTURE IN PICTURE]

– P BOARD –

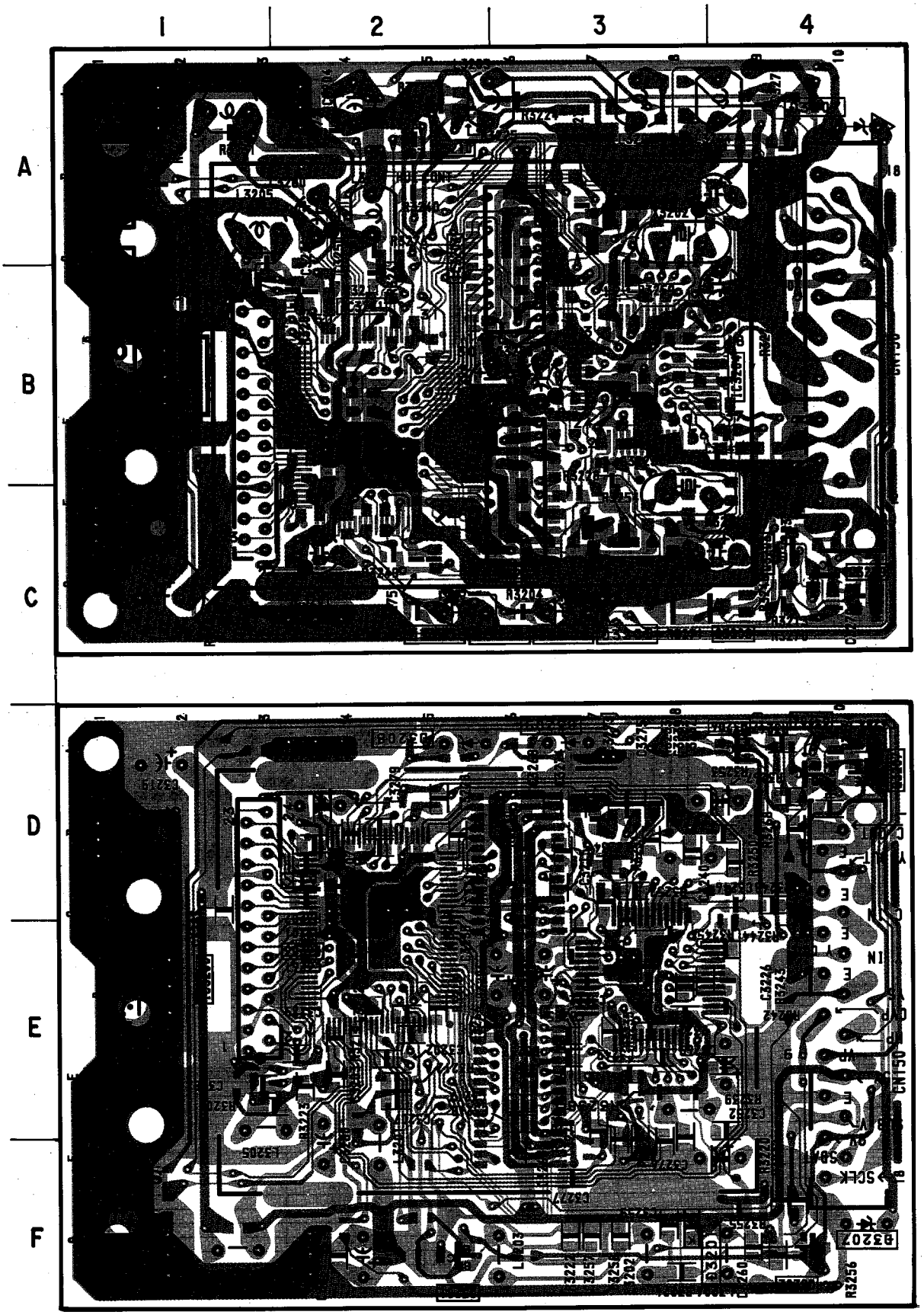


Note :

- Pattern from the side which enables seeing.
- Pattern of the rear side.

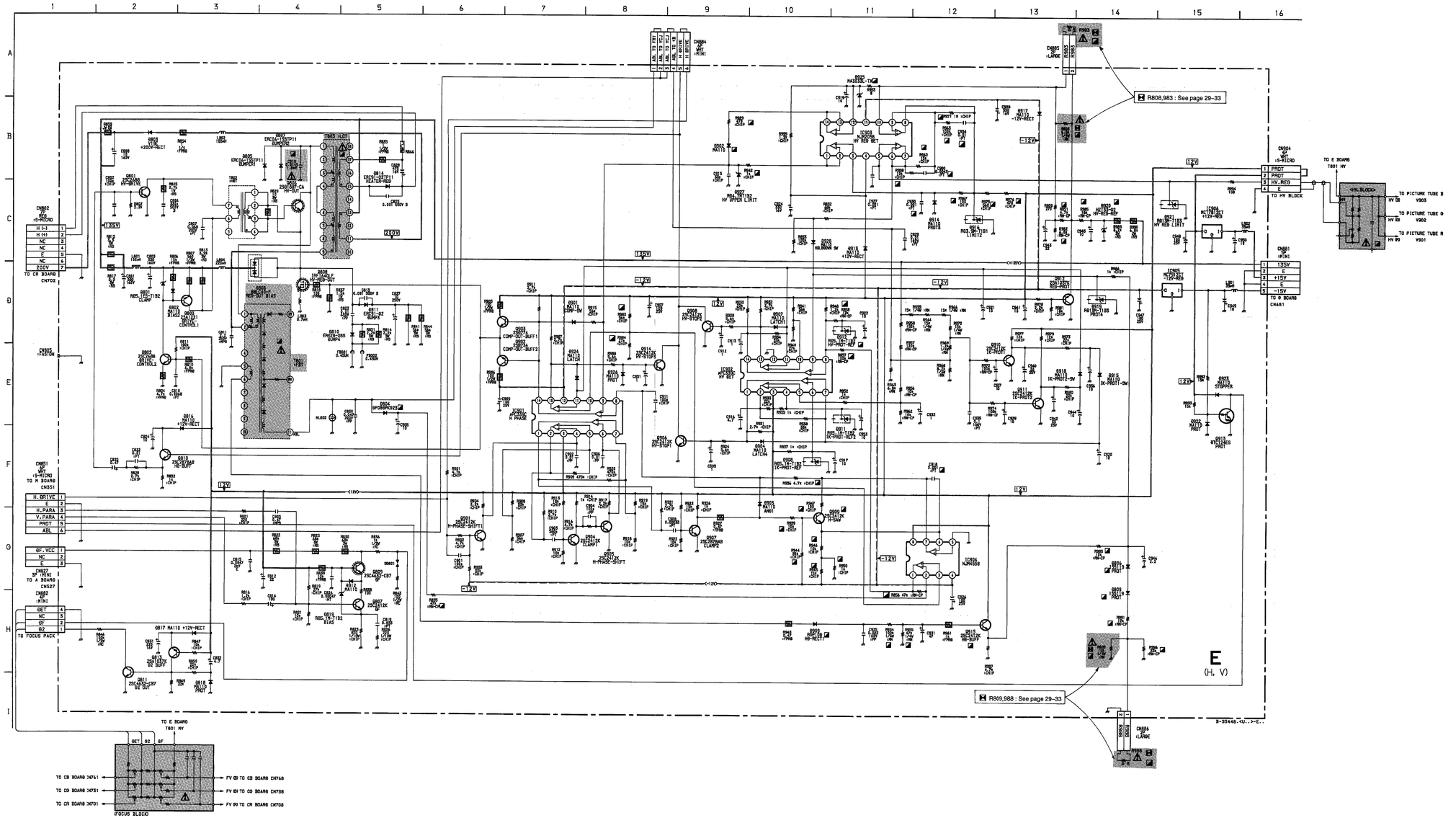
P [PICTURE IN PICTURE]

– P BOARD –

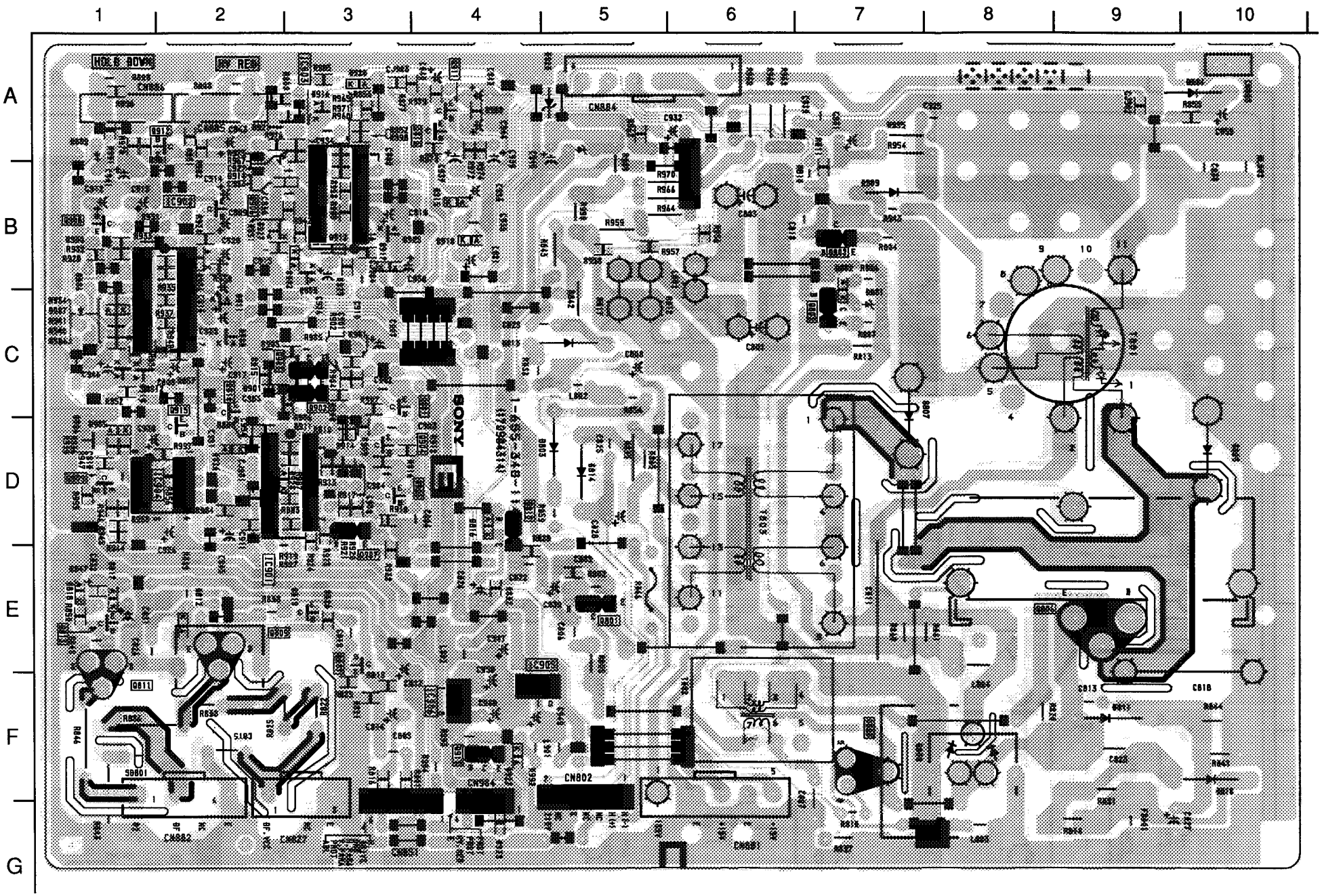


les seeing.

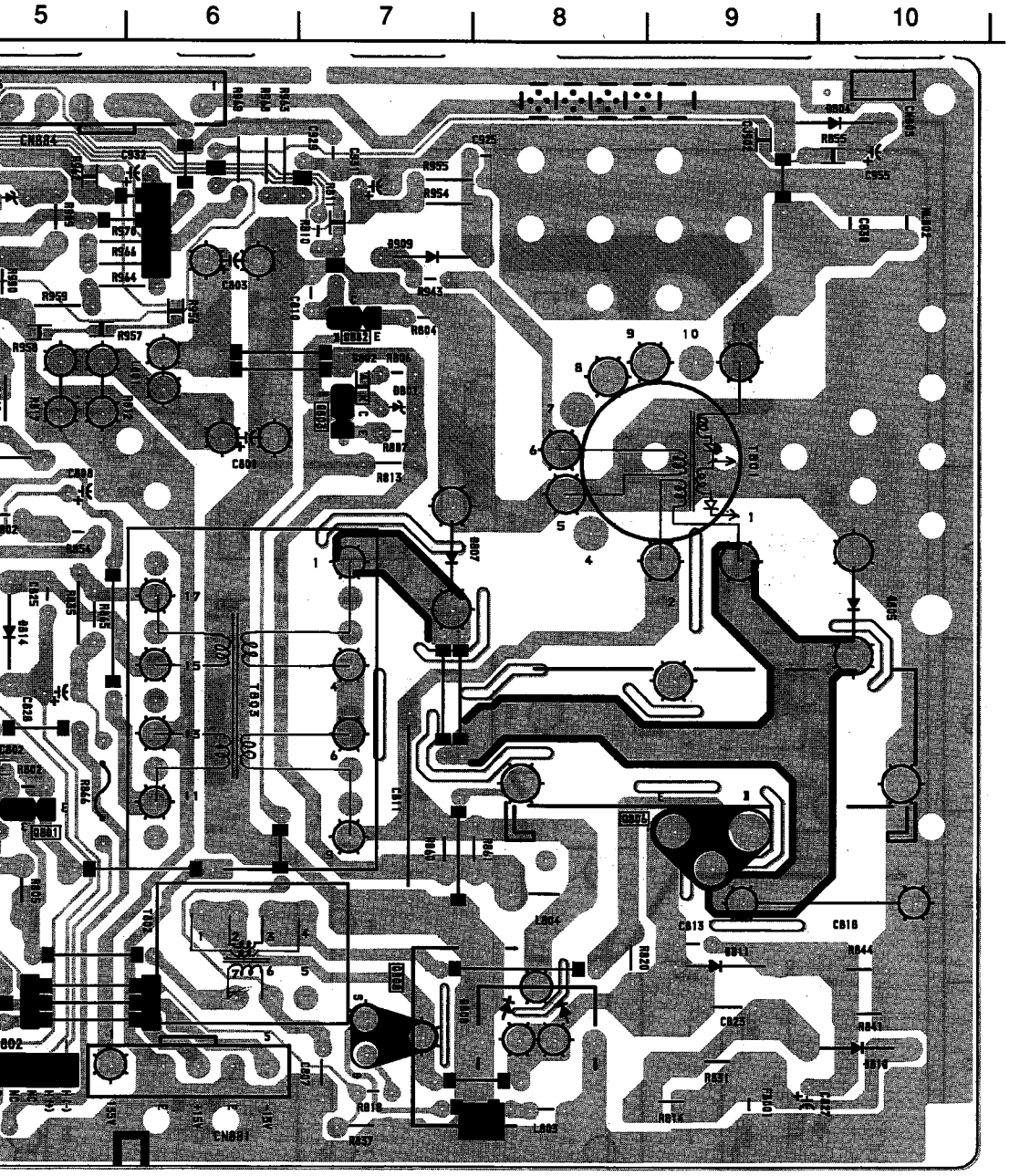
P <PICTURE IN PICTURE>


E
(H, V)
R808,983 : See page 29-33
R809,988 : See page 29-33
TO E BOARD
T801 HV
TO PICTURE TUBE B
V903
TO PICTURE TUBE G
V902
TO PICTURE TUBE R
V901
TO HV BLOCK
TO G BOARD
CN681
TO CR BOARD
CN702
TO M BOARD
CN651
TO A BOARD
CN527
TO FOCUS PACK
TO CB BOARD CN741
TO CG BOARD CN731
TO CR BOARD CN701
FV CB TO CB BOARD CN746
FV CH TO CG BOARD CN736
FV CR TO CR BOARD CN706
(FOCUS BLOCK)

– E BOARD –



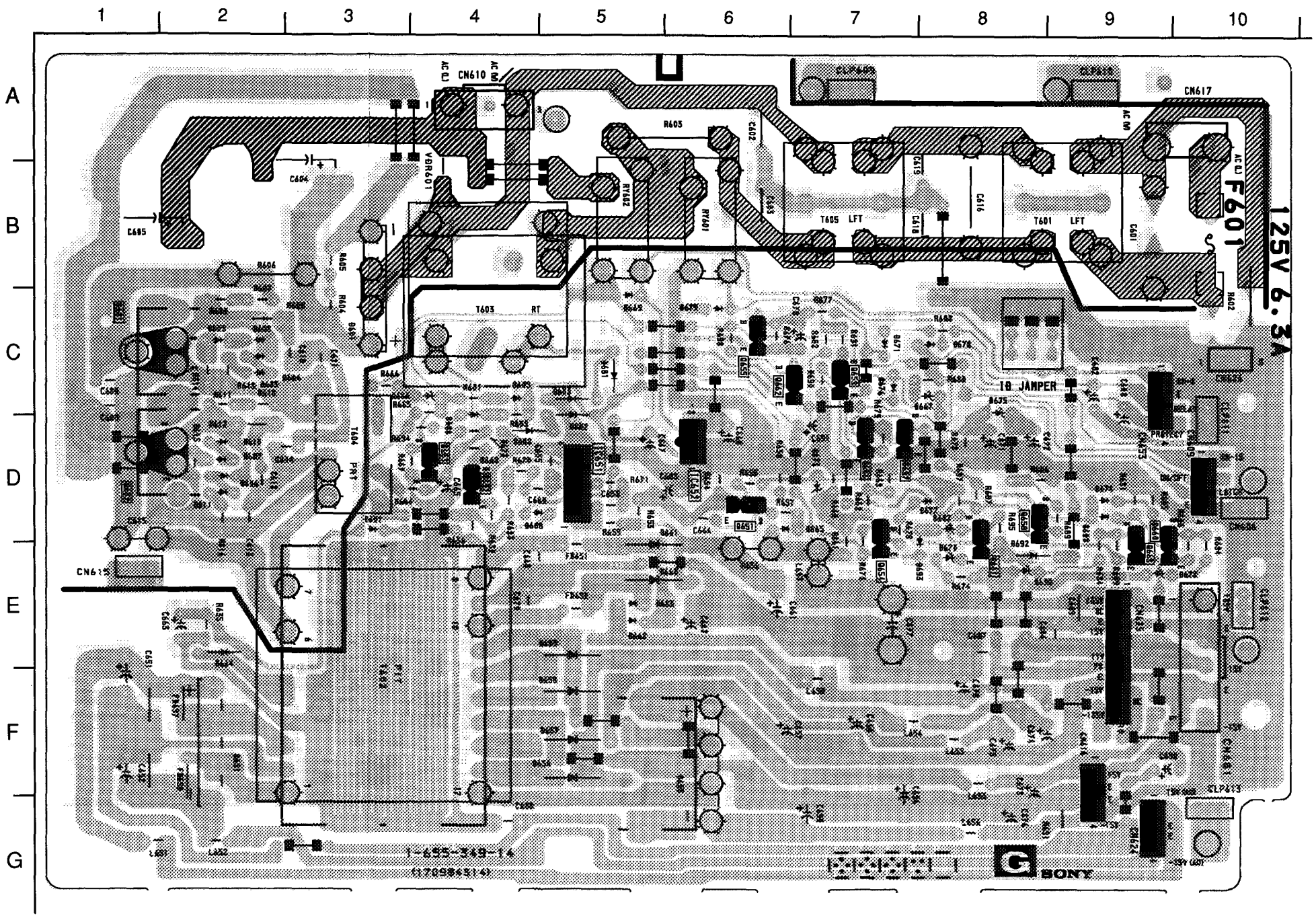
NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

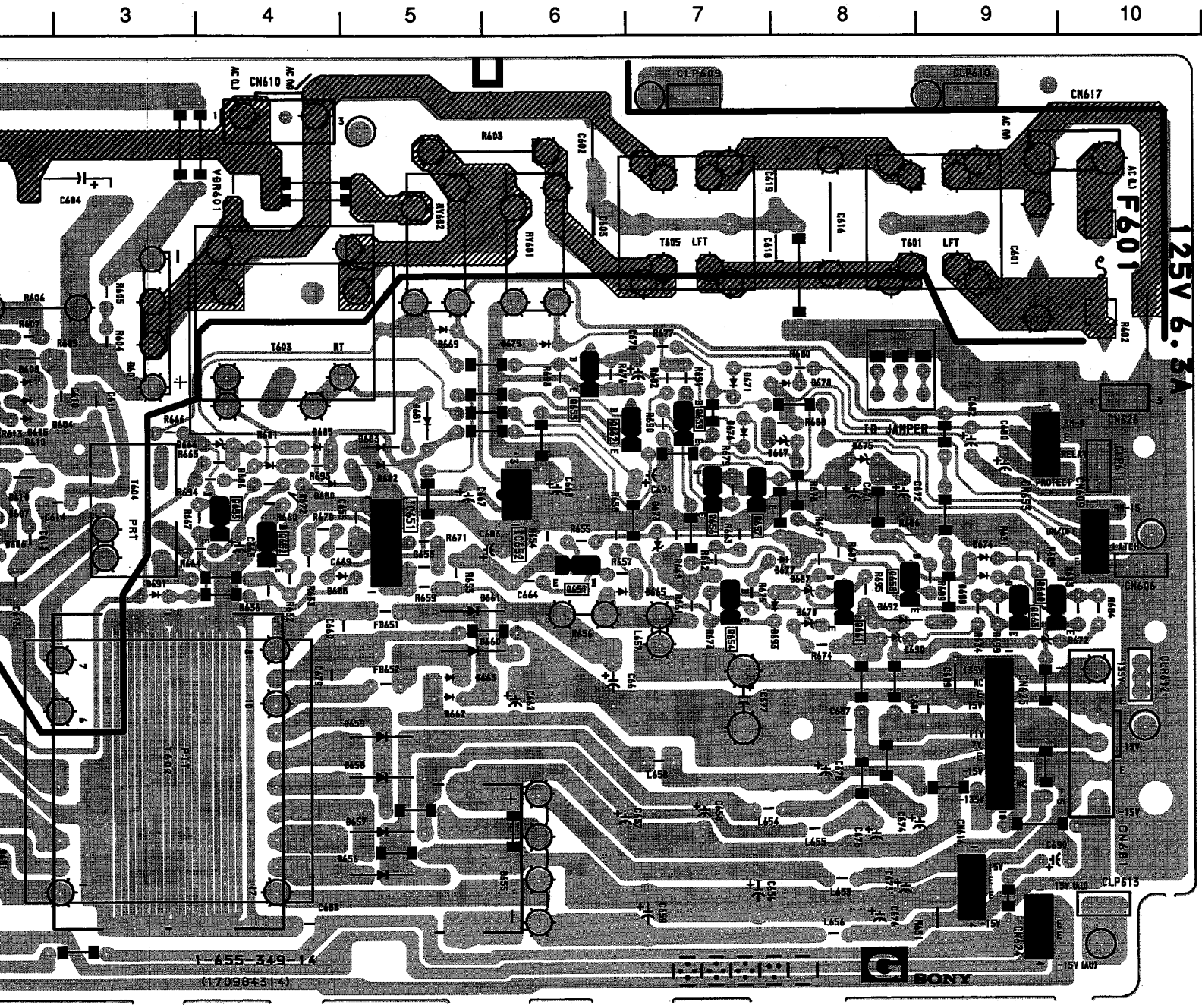


ge of over
ic shock in

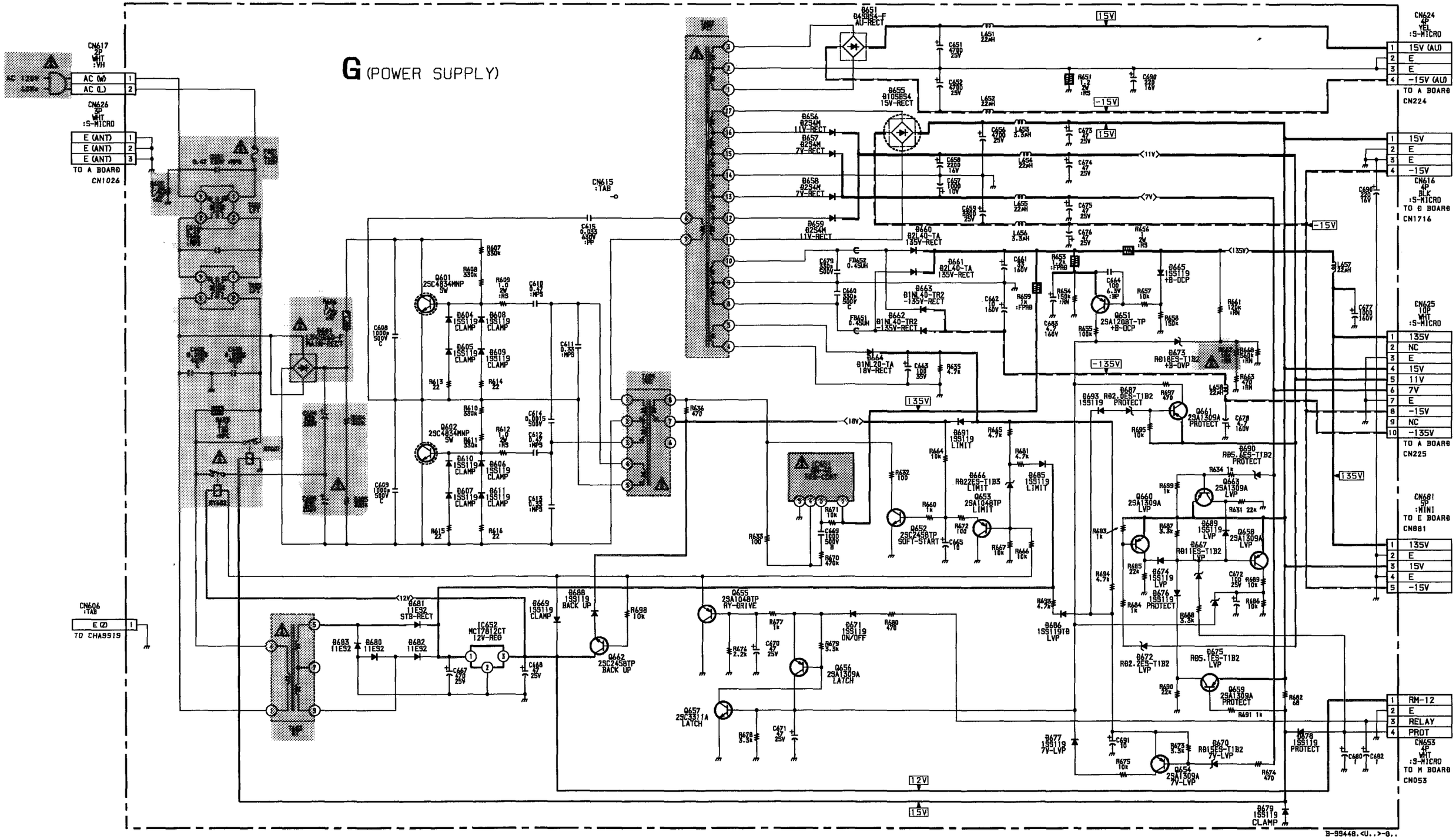
G [POWER SUPPLY]

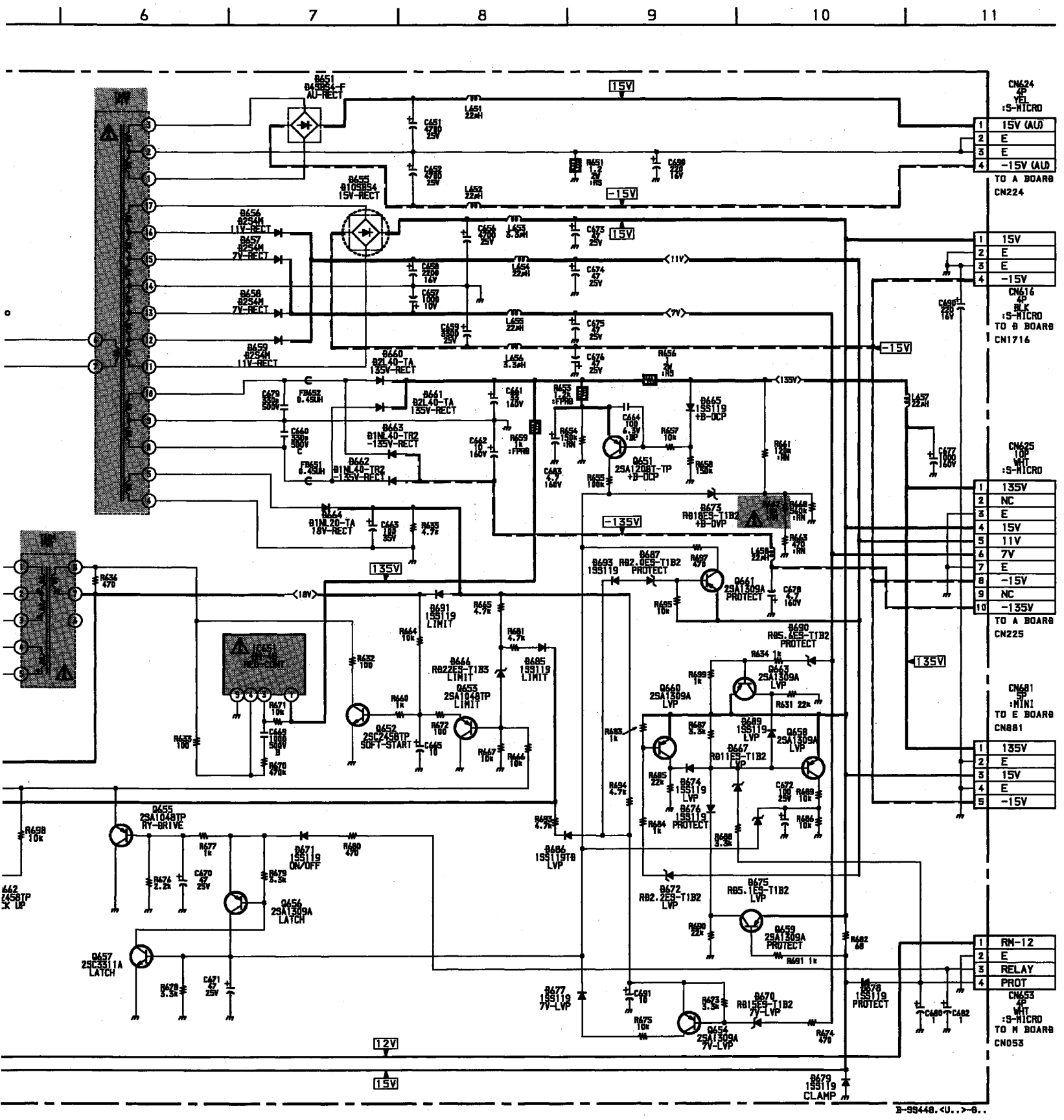
– G BOARD –

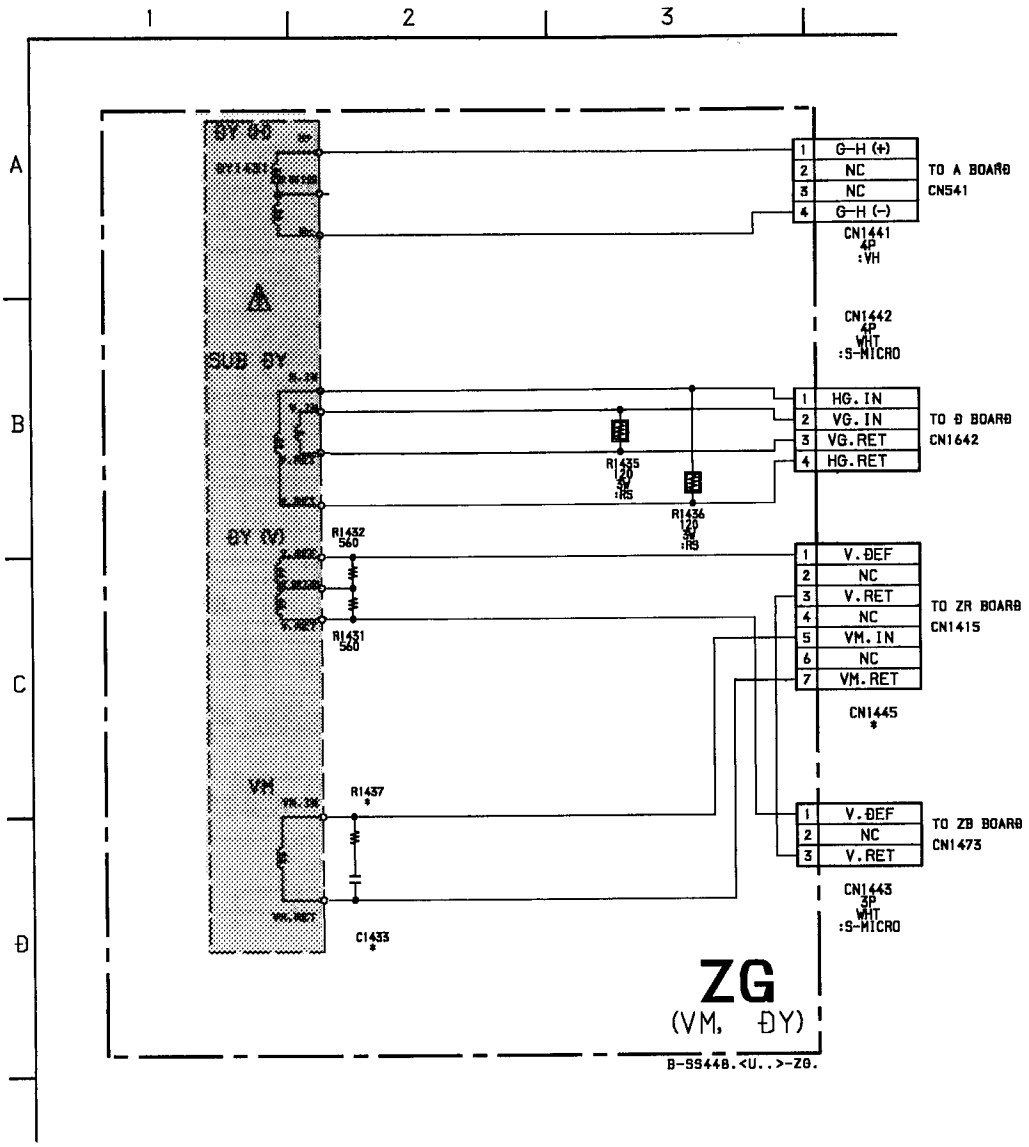


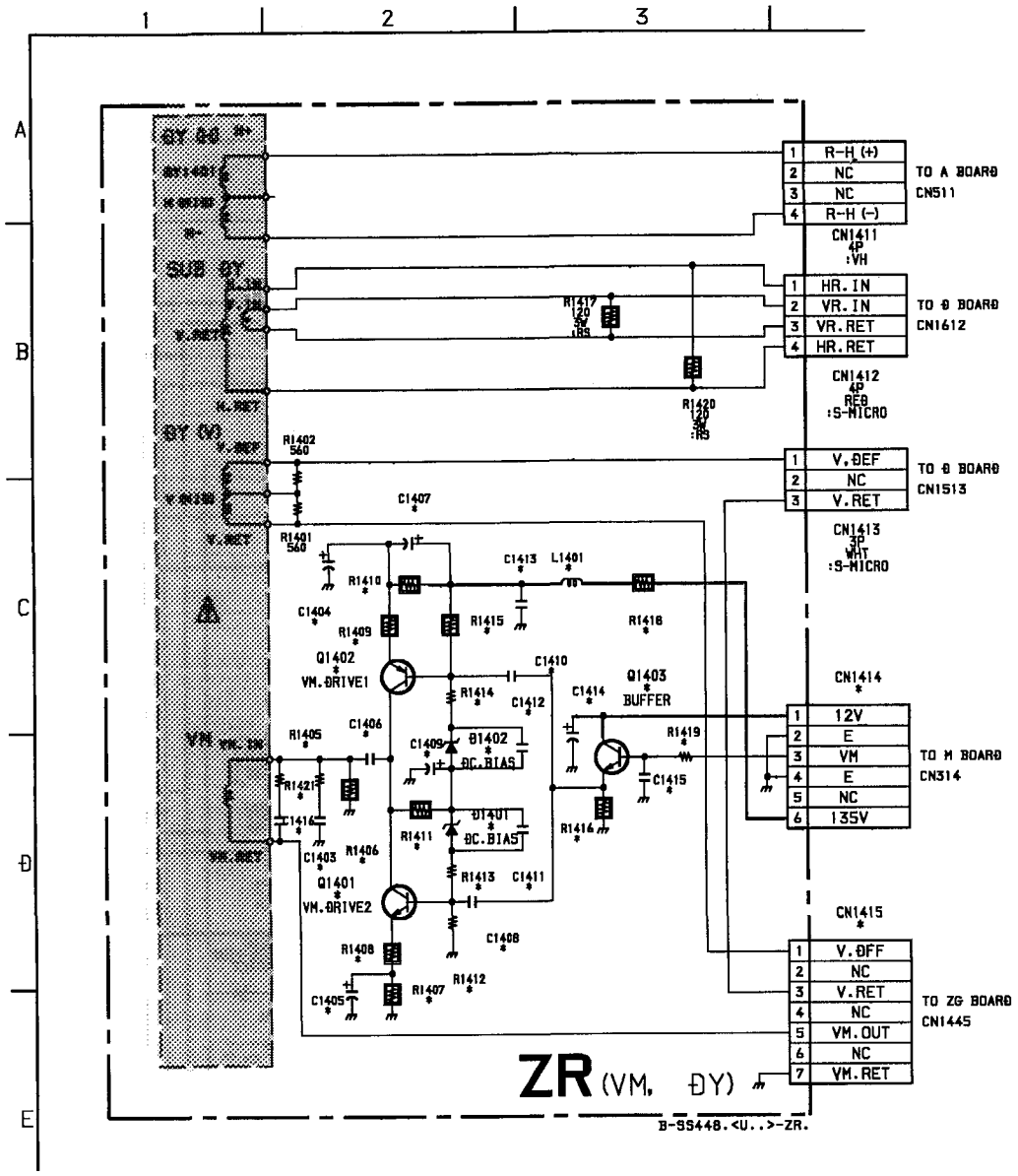

3
4
5
6
7
8
9
10
CN610
CN617
CLP603
CLP610
F601
125V 6.3A
T603
T605 LFT
T601 LFT
T604
PRT
IR JUMPER
CN606
CN625
CN614
CN681
CN624
CLP613
CN622
1-655-349-14
(1709843:4)
SONY

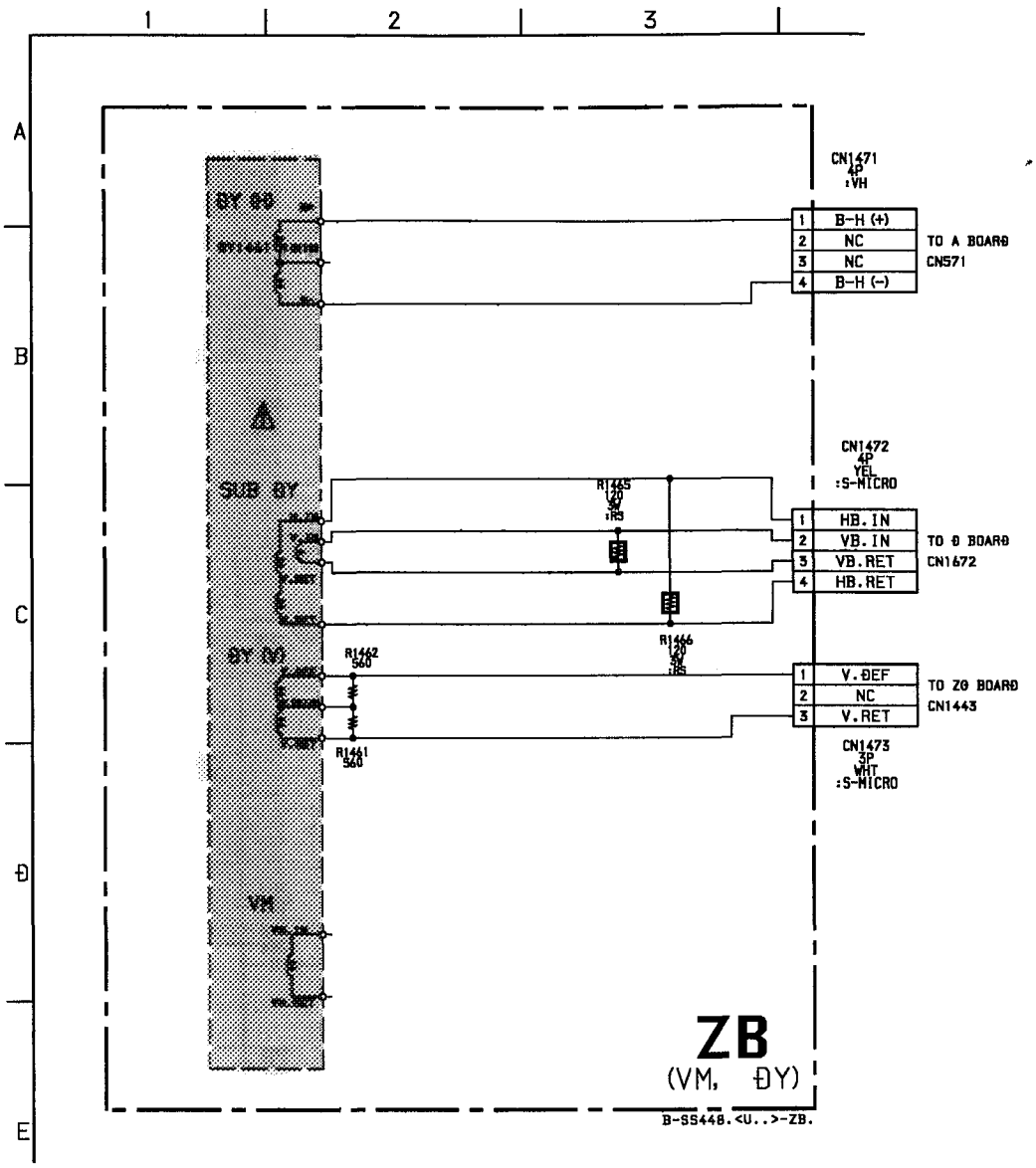
G (POWER SUPPLY)




6
7
8
9
10
11
15V
-15V
11V
7V
135V
-135V
18V
12V
CN624
4P
YEL
:S-MICRO
1 15V (AU)
2 E
3 E
4 -15V (AU)
TO A BOARD
CN224
1 15V
2 E
3 E
4 -15V
CN616
4P
BLK
:S-MICRO
TO B BOARD
CN1716
CN625
10P
WHT
:S-MICRO
1 135V
2 NC
3 E
4 15V
5 11V
6 7V
7 E
8 -15V
9 NC
10 -135V
TO A BOARD
CN225
CN681
5P
:MINI
TO E BOARD
CN881
1 135V
2 E
3 15V
4 E
5 -15V
1 RM-12
2 E
3 RELAY
4 PROT
CN453
4P
WHT
:S-MICRO
TO M BOARD
CN053
D451
B45B54-F
AU-RECT
D455
B10SB54
15V-RECT
D456
B254M
11V-RECT
D457
B254M
7V-RECT
D458
B254M
7V-RECT
D459
B254M
11V-RECT
D460
B2L40-TA
135V-RECT
D461
B2L40-TA
135V-RECT
D462
B1NL40-TR2
-135V-RECT
D463
B1NL40-TR2
-135V-RECT
D464
B1NL20-TA
18V-RECT
Q451
2SA1208T-TP
+B-OCP
Q452
2SC2458TP
SOFT-START
Q453
2SA1048TP
LIMIT
Q454
2SA1309A
7V-LVP
Q455
2SA1048TP
HV-DRIVE
Q456
2SA1309A
LATCH
Q457
2SC3311A
LATCH
Q458
2SA1309A
PROTECT
Q459
2SA1309A
PROTECT
Q460
2SA1309A
LVP
Q461
2SA1309A
PROTECT
Q462
2SA1309A
LVP
Q463
2SA1309A
LVP
Q464
2SA1309A
LVP
D665
1SS119
+B-OCP
D666
RB228ES-T1B3
LIMIT
D667
RB118ES-T1B2
LVP
D668
1SS119
LVP
D669
1SS119
LVP
D670
RB118ES-T1B2
7V-LVP
D671
1SS119
ON/OFF
D672
RB2.2ES-T1B2
LVP
D673
RB118ES-T1B2
+B-OVP
D674
1SS119
LVP
D675
RB5.1ES-T1B2
LVP
D676
1SS119
PROTECT
D677
1SS119
7V-LVP
D678
1SS119
PROTECT
D679
1SS119
CLAMP
D680
1SS119TB
LVP
D687
RB2.0ES-T1B2
PROTECT
D690
RB5.6ES-T1B2
PROTECT
D691
1SS119
LIMIT
D693
1SS119
D685
1SS119
LIMIT
B-9948.<U..>-6..

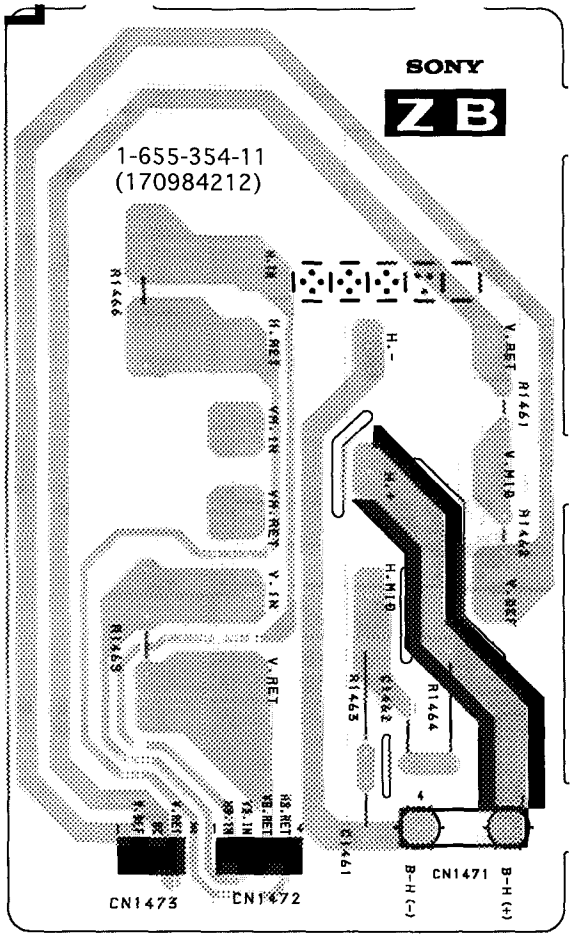

1
2
3
A
B
C
Đ
SUB ĐY
ĐY (V)
VM
R1435
120
1/2W
:RS
R1436
120
1/2W
:RS
R1432
560
R1431
560
R1437
*
C1433
*
1 G-H (+)
2 NC
3 NC
4 G-H (-)
TO A BOARD
CN541
CN1441
4P
:VH
CN1442
4P
WHT
:S-MICRO
1 HG.IN
2 VG.IN
3 VG.RET
4 HG.RET
TO Đ BOARD
CN1642
1 V.ĐEF
2 NC
3 V.RET
4 NC
5 VM.IN
6 NC
7 VM.RET
TO ZR BOARD
CN1415
CN1445
*
1 V.ĐEF
2 NC
3 V.RET
TO ZB BOARD
CN1473
CN1443
3P
WHT
:S-MICRO
ZG
(VM, ĐY)
B-9S448.<U..>-ZG.


1
2
3
A
B
C
Đ
E
R-H (+)
NC
NC
R-H (-)
TO A BOARĐ
CN511
CN1411
4P
:VH
HR. IN
VR. IN
VR. RET
HR. RET
TO Đ BOARĐ
CN1612
CN1412
4P
REĐ
:S-MICRO
V. ĐEF
NC
V. RET
TO Đ BOARĐ
CN1513
CN1413
3P
WHT
:S-MICRO
CN1414
12V
E
VM
E
NC
135V
TO M BOARĐ
CN314
CN1415
V. ĐFF
NC
V. RET
NC
VM. OUT
NC
VM. RET
TO ZG BOARĐ
CN1445
R1417
120
1/4W
:RS
R1420
120
1/4W
:RS
R1402
560
R1401
560
C1407
C1413
L1401
R1410
C1404
R1409
R1415
R1418
Q1402
VM. ĐRIVE1
C1410
R1414
C1412
Q1403
BUFFER
C1414
R1419
C1406
R1405
Đ1402
ĐC. BIAS
C1409
R1421
C1415
C1416
C1403
R1406
Đ1401
ĐC. BIAS
R1411
R1414
Q1401
VM. ĐRIVE2
R1413
C1411
C1408
R1408
R1412
C1405
R1407
ZR (VM, ĐY)
B-S5448.<U..>-ZR.

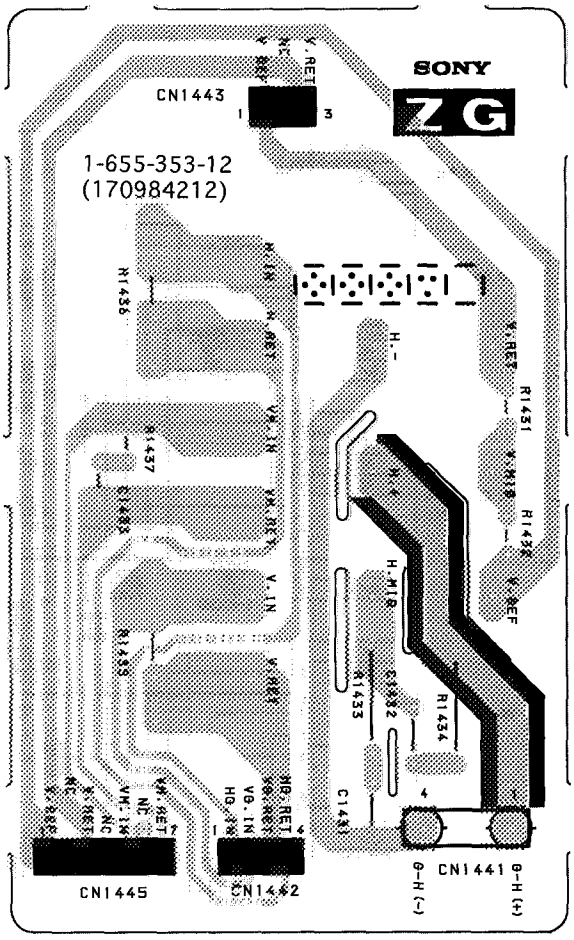

1
2
3
A
B
C
Đ
E
ĐY ĐB
SUB ĐY
ĐY (V)
VM
CN1471
4P
:VH
1 B-H (+)
2 NC
3 NC
4 B-H (-)
TO A BOARĐ
CN571
CN1472
4P
YEL
:S-MICRO
1 HB.IN
2 VB.IN
3 VB.RET
4 HB.RET
TO Đ BOARĐ
CN1672
R1445
120
R1446
120
R1442
560
R1441
560
1 V.ĐEF
2 NC
3 V.RET
TO ZĐ BOARĐ
CN1443
CN1473
3P
WHT
:S-MICRO
ZB
(VM, ĐY)
B-SS448.<U..>-ZB.

ZB [VM, DY] **ZG** [VM, DY] **ZR** [VM, DY]

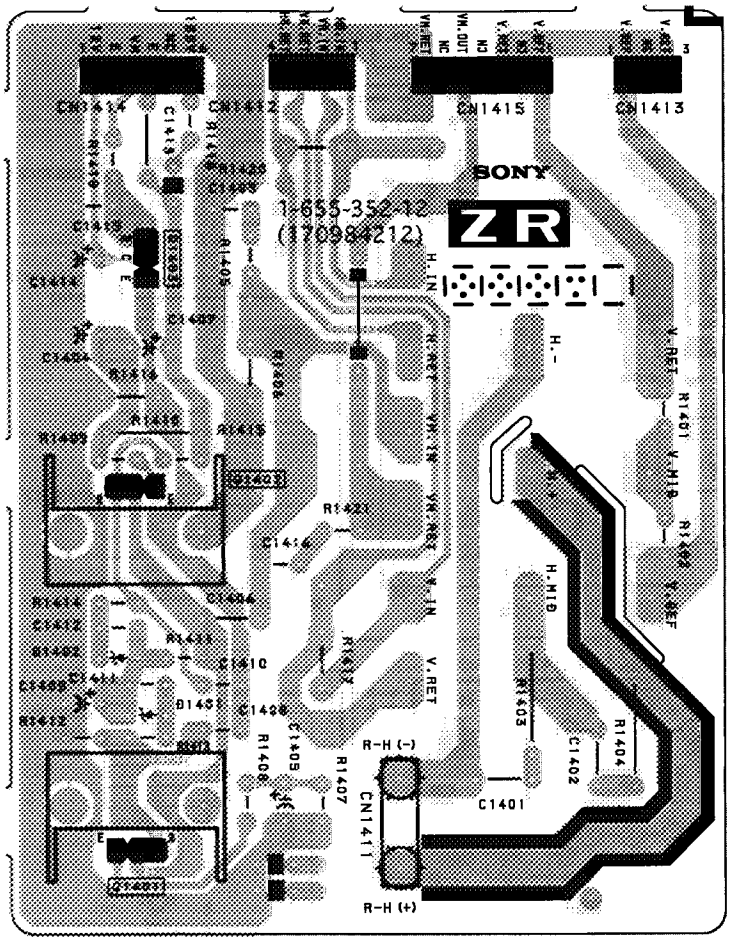
– ZB BOARD –

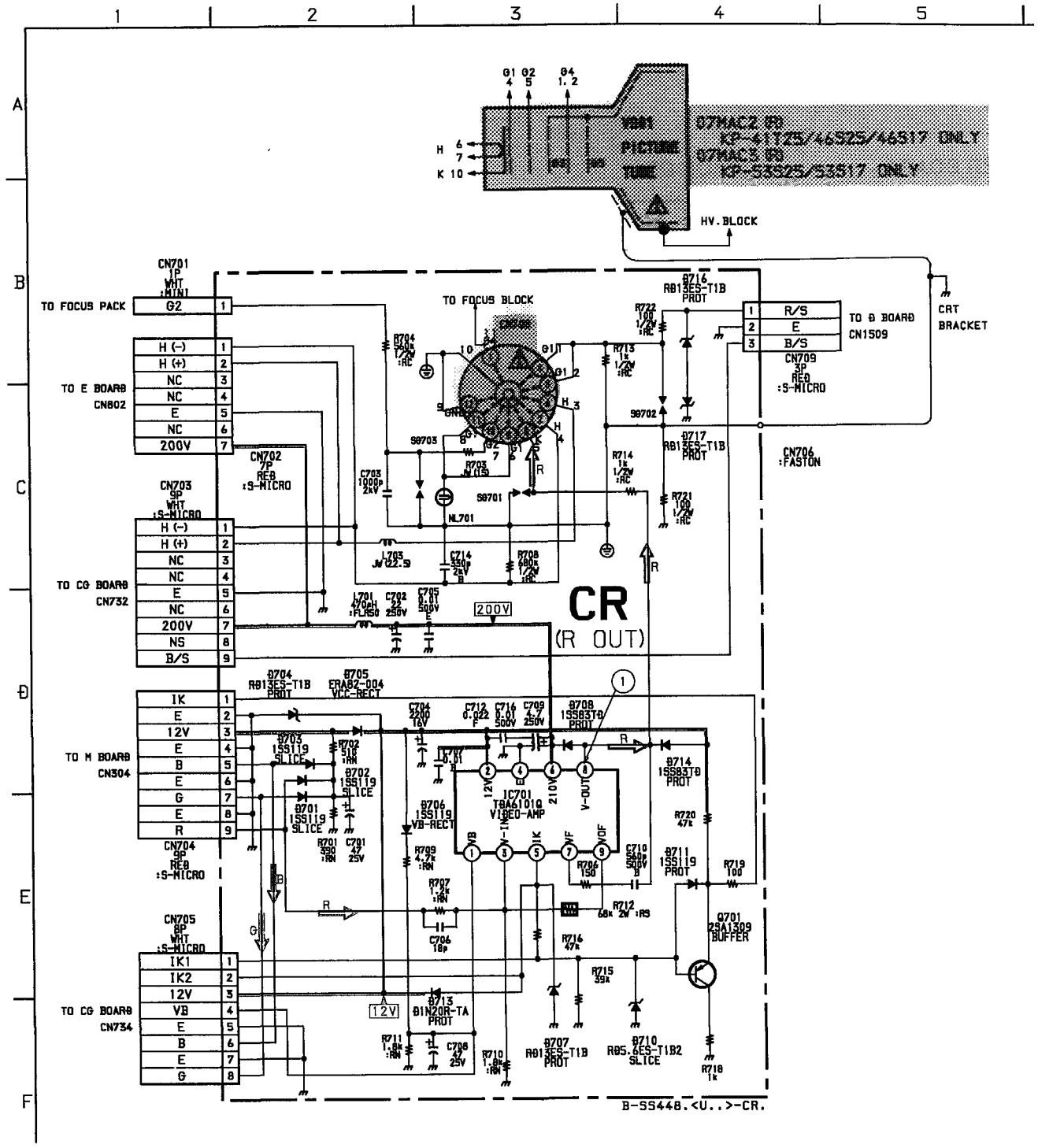


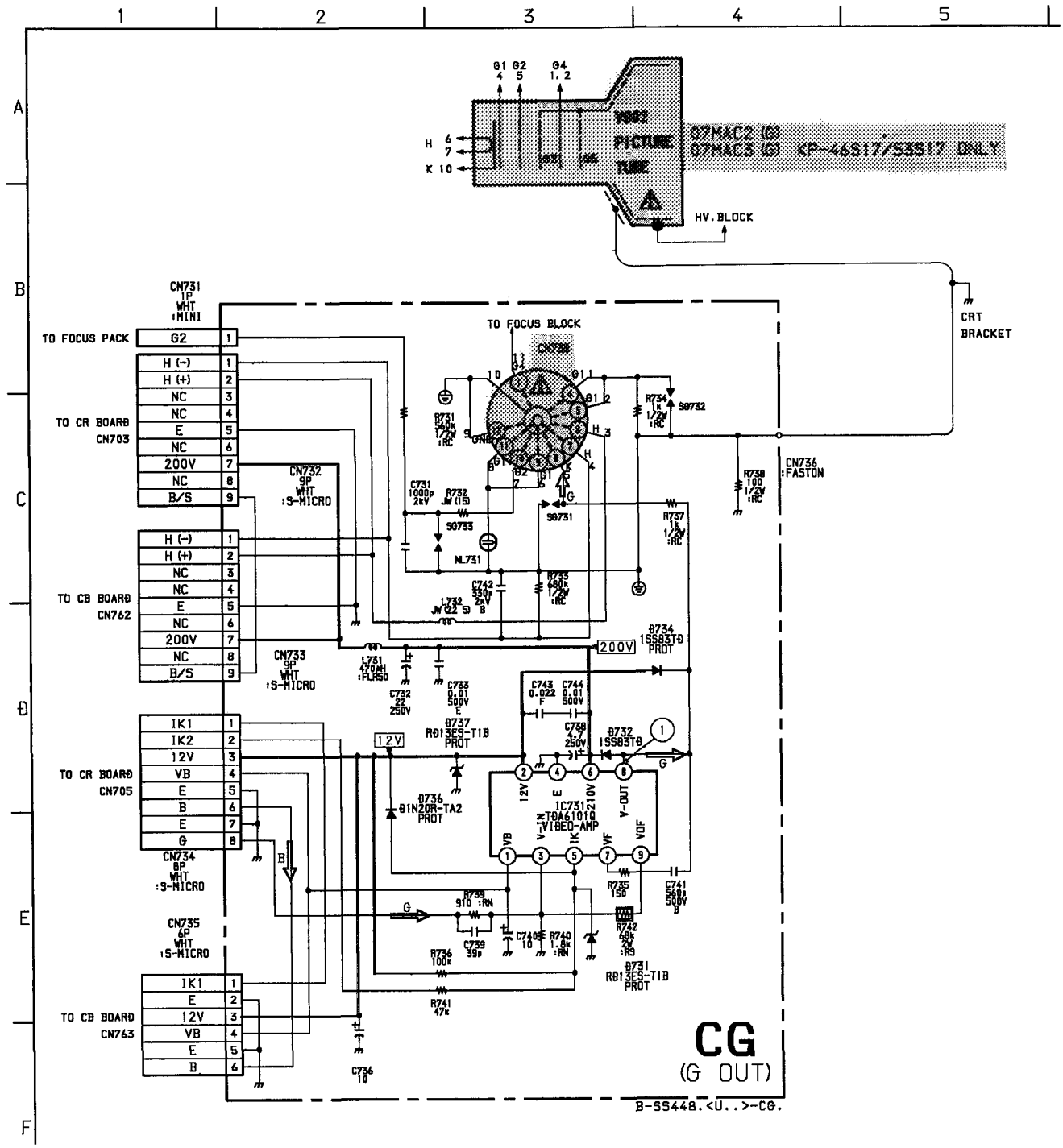
– ZG BOARD –

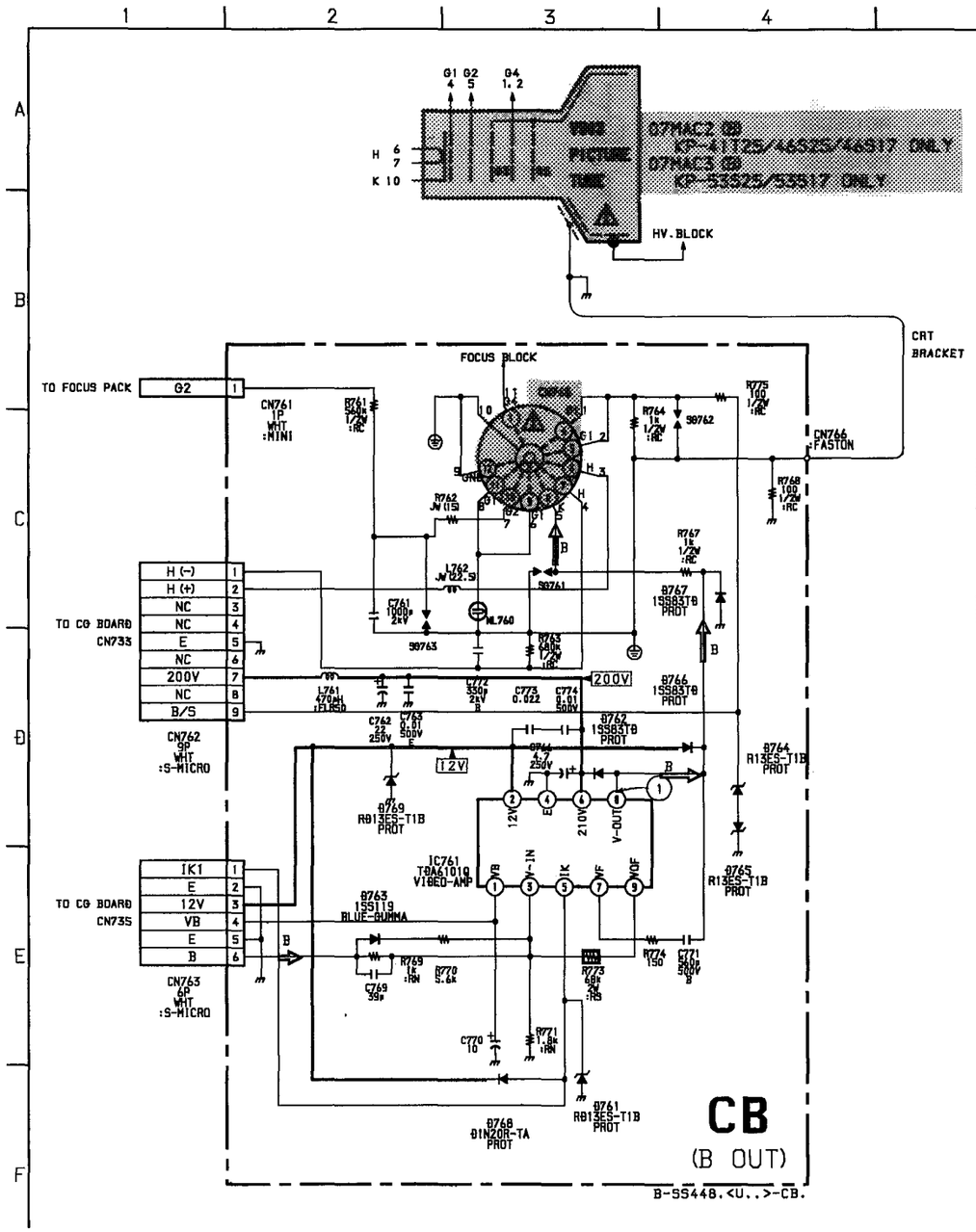


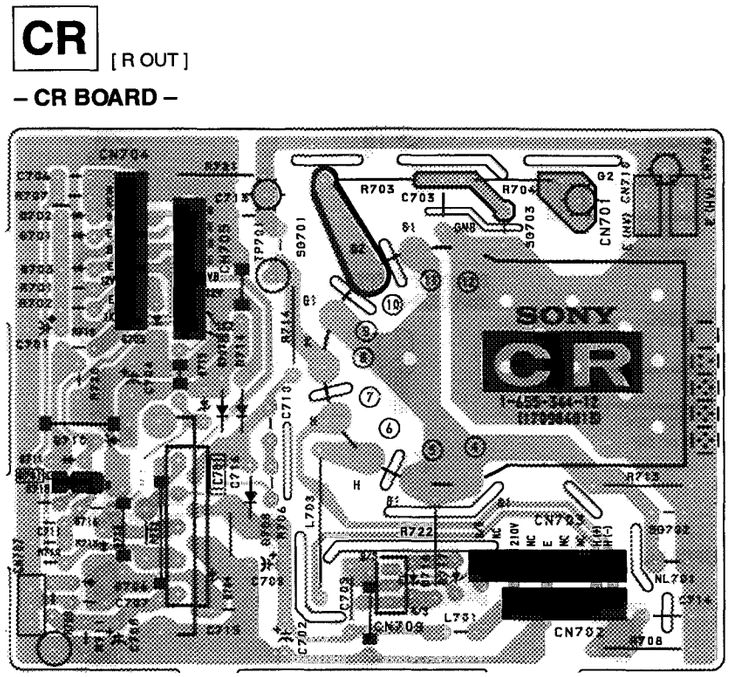
– ZR BOARD –

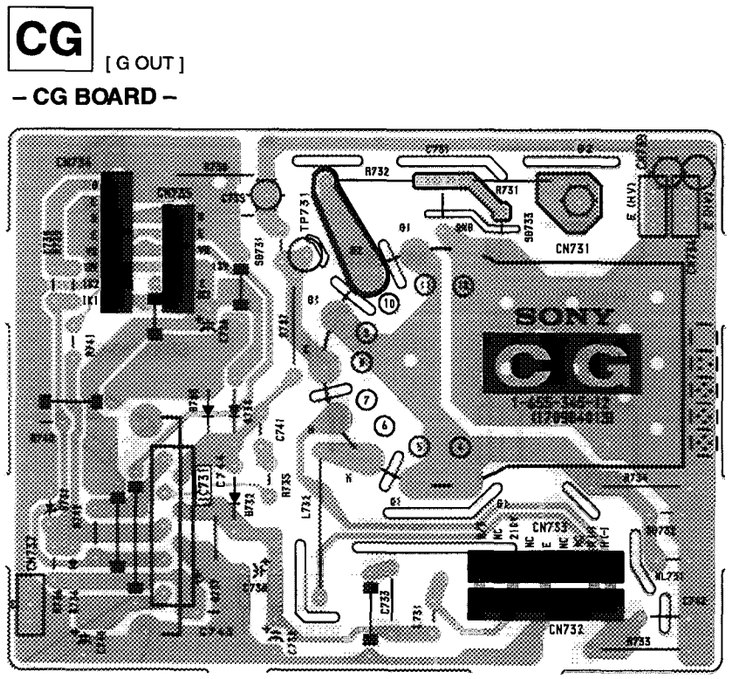

CN1414
CN1412
CN1415
CN1413
SONY
ZR
1-655-352-12
(1709-4212)
H.IN
H.-
V.RET
R1401
V.HLD
R1402
V.REF
R1403
H.HLD
C1401
C1402
R1404
CN1411
R-H (-)
R-H (+)

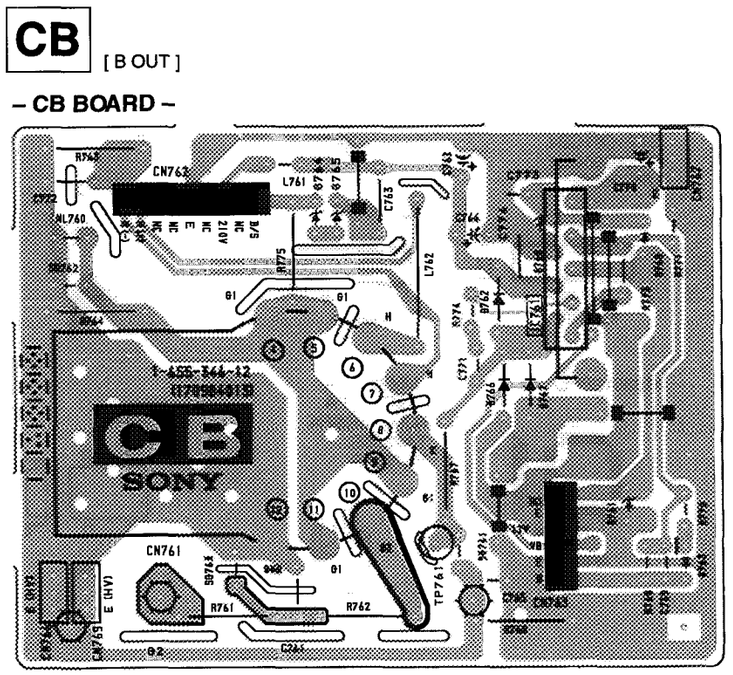

CR
(R OUT)
TO FOCUS PACK
TO E BOARD CN802
TO CG BOARD CN732
TO M BOARD CN304
TO CG BOARD CN734
TO FOCUS BLOCK
TO G BOARD CN1509
CRT BRACKET
CN706 :FASTON
HV.BLOCK
PICTURE TUBE
200V
12V
IC701 T8A1010 VIDEO-AMP
Q701 2SA1309 BUFFER
B-5S448.<U..>-CR.


07MAC2 (G)
07MAC3 (G) KP-46S17/S33S17 ONLY
PICTURE TUBE
HV.BLOCK
CRT BRACKET
TO FOCUS BLOCK
CN731 1P WHT :MINI
TO FOCUS PACK
G2
H (-)
H (+)
NC
E
200V
B/S
TO CR BOARD CN703
TO CB BOARD CN762
TO CR BOARD CN705
TO CB BOARD CN763
CN732 9P WHT :S-MICRO
CN733 9P WHT :S-MICRO
CN734 8P WHT :S-MICRO
CN735 6P WHT :S-MICRO
IK1
IK2
12V
VB
B
G
CN736 :FASTON
CN738
S0731
S0732
S0733
NL731
L731 470uH :FLR50
L732 JW02 5
D731 RB13ES-T1B PROT
D732 1SS83TB
D733 RB13ES-T1B PROT
D734 1SS83TB PROT
D736 B1N20R-TA2 PROT
D737 RB13ES-T1B PROT
IC731 T0A61010 VIDEO-AMP
V-IN
V-OUT
CG
(G OUT)
B-SS448.<U..>-CG.


G1 G2 G4
4 5 1, 2
H 6
7
K 10
07MAC2 (B)
KP-41T25/46S25/46S17 ONLY
07MAC3 (B)
KP-53S25/53S17 ONLY
HV. BLOCK
CRT BRACKET
FOCUS BLOCK
TO FOCUS PACK
G2
CN761 1P WHT :MINI
CN766 FASTON
H (-)
H (+)
NC
NC
E
NC
200V
NC
B/S
TO CG BOARD CN735
CN762 9P WHT :S-MICRO
12V
IC761 T0A61010 V18ED-AMP
IK1
E
12V
VB
E
B
TO CG BOARD CN735
CN763 6P WHT :S-MICRO
CB
(B OUT)
B-5S448.<U..>-CB.

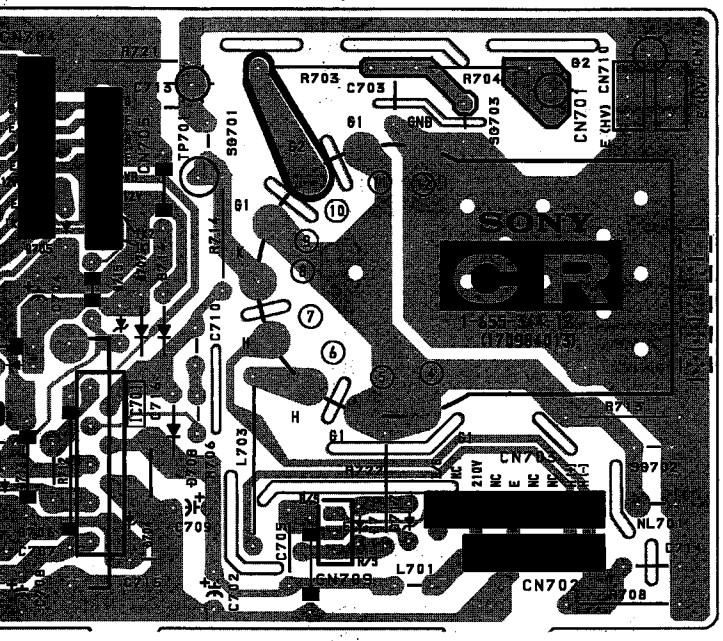

CR
[R OUT]
– CR BOARD –
SONY
CR
CN704
CN701
CN702
CN703
CN732


CG
[G OUT]
– CG BOARD –
SONY
CG
CN735
CN731
CN732


CB
[B OUT]
– CB BOARD –
CB
SONY
CN763
CN761

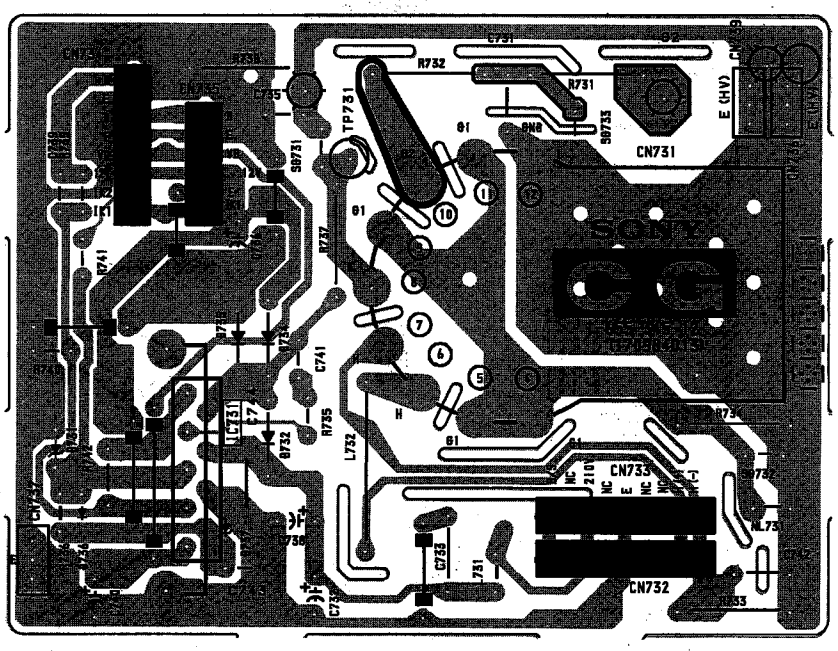
[R OUT]

OARD –



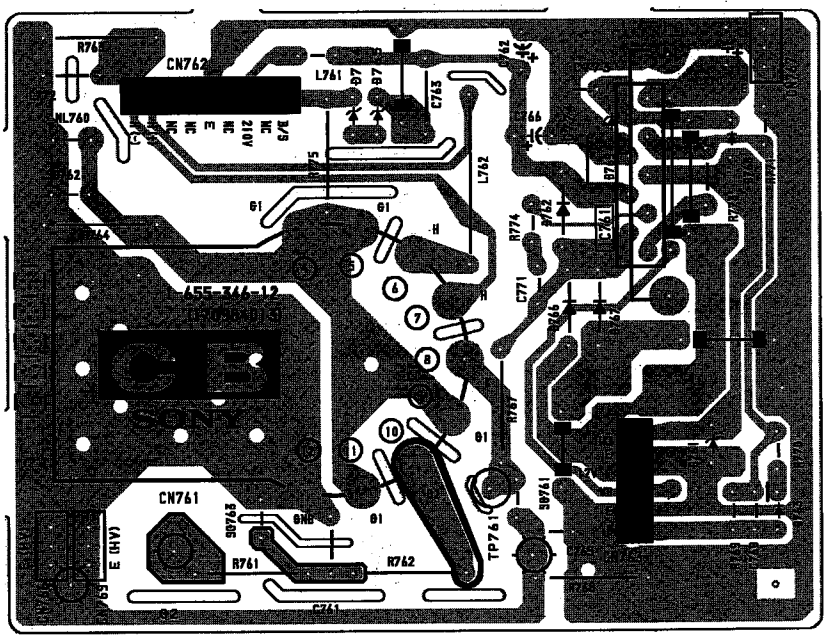
CG [G OUT]

– CG BOARD –



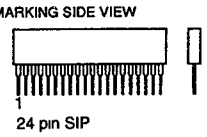
CB [B OUT]

– CB BOARD –

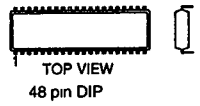


4-3. SEMICONDUCTORS

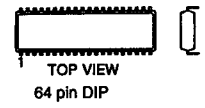
CAT51C262-ZS
MSM51C262-ZS



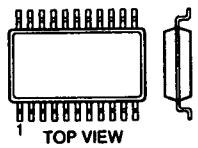
CXA1477AS
CXA1855S



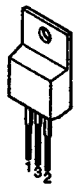
CXP85112B-SX377
CXP85332A-SX377



HD14053BFP



LM7912CT
NJM7905FA
MC7905CT



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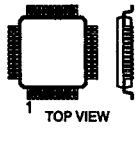
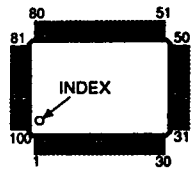
ST24C01CB1
ST24C04CB1
UPC358C

MB3512PFQ



MB40176PF-G-BND-EF

MB86144BPF-G-BND



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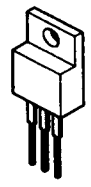
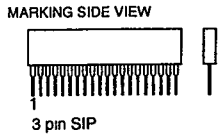
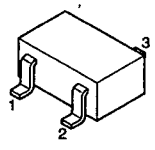


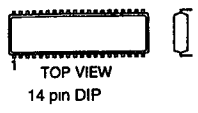
MN1280-S



MN1382S



NJM2058D



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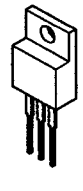
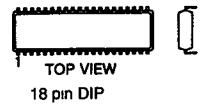
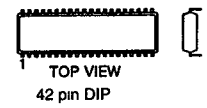
NJM7812FA
NJM78M09FA
TA7805S
TA7812S



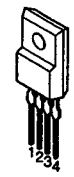
PA0053B
Z8622812PSC



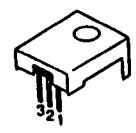
PM0002B



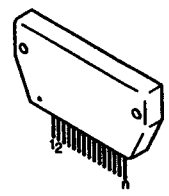
PQ05RF1
PQ09RA1



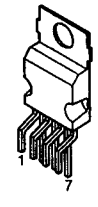
SBX1780-51



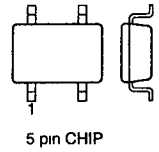
STK392-010



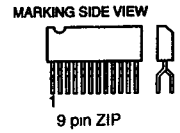
STV9379



TC7SU04F



TDA6101Q



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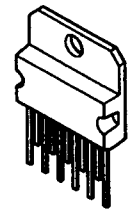
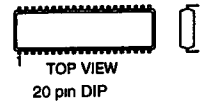


TDA8424



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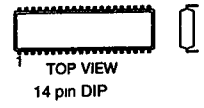

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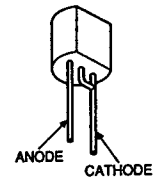

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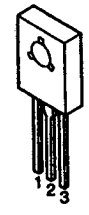

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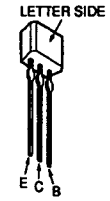

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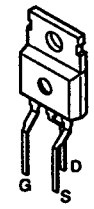

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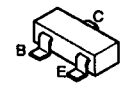

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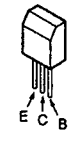

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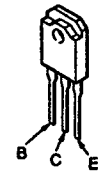

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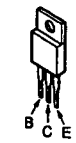

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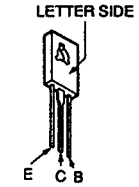

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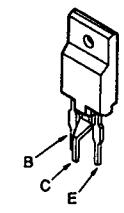

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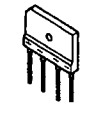

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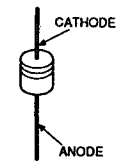
RD15ESB2
RD18ESB2
RD2.0ESB2
RD2.2ESB2
RD22ESB3
RD24ESB
RD3.3ESB2
RD3.9ESB2
RD33ESB1
RD39ESB2
RD5.1ESB1
RD5.1ESB2
RD5.6ESB1
RD5.6ESB2
RD8.2ESB2
RD9.1ESL
11ES2
1SS119-25



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GP08D
RGP02-20EL-6394
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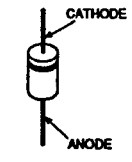

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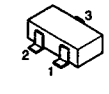

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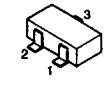

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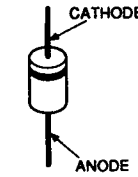

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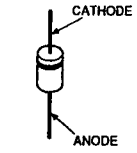
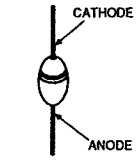
ERC91-02
RU-1C



ERC38-06
V09G



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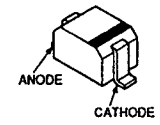

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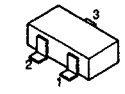
RD3.9M-B1
RD4.7M-B2
RD5.1M-B2
RD5.6M-B2



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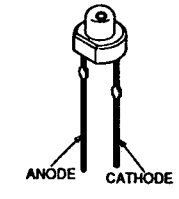

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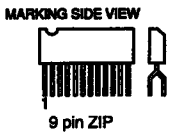

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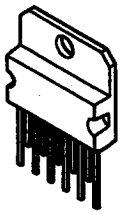

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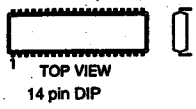

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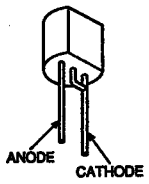

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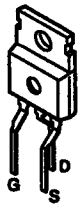

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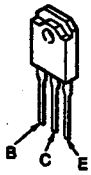

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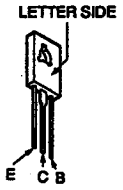

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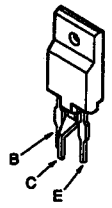

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LN4SB60-F

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RD11ESB2
RD13ESB2
RD15ESB2
RD18ESB2
RD2.0ESB2
RD2.2ESB2
RD22ESB3
RD24ESB
RD3.3ESB2
RD3.9ESB2
RD33ESB1
RD39ESB2
RD5.1ESB1
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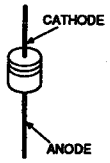

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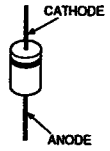

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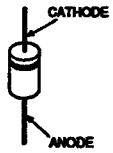

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DAN202K

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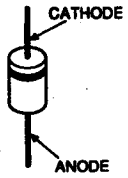
EGP-20G



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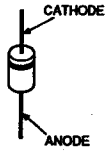
ERC91-02
RU-1C



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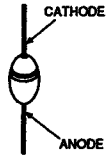

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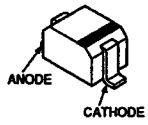
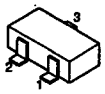


RD13M-B3
RD3.3M-B1
RD3.9M-B1
RD4.7M-B2
RD5.1M-B2
RD5.6M-B2



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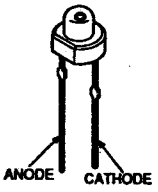


SECTION 5
EXPLODED VIEWS

The componants identified by shading and mark ⚠ are critical for safety
Replace only with part number specified

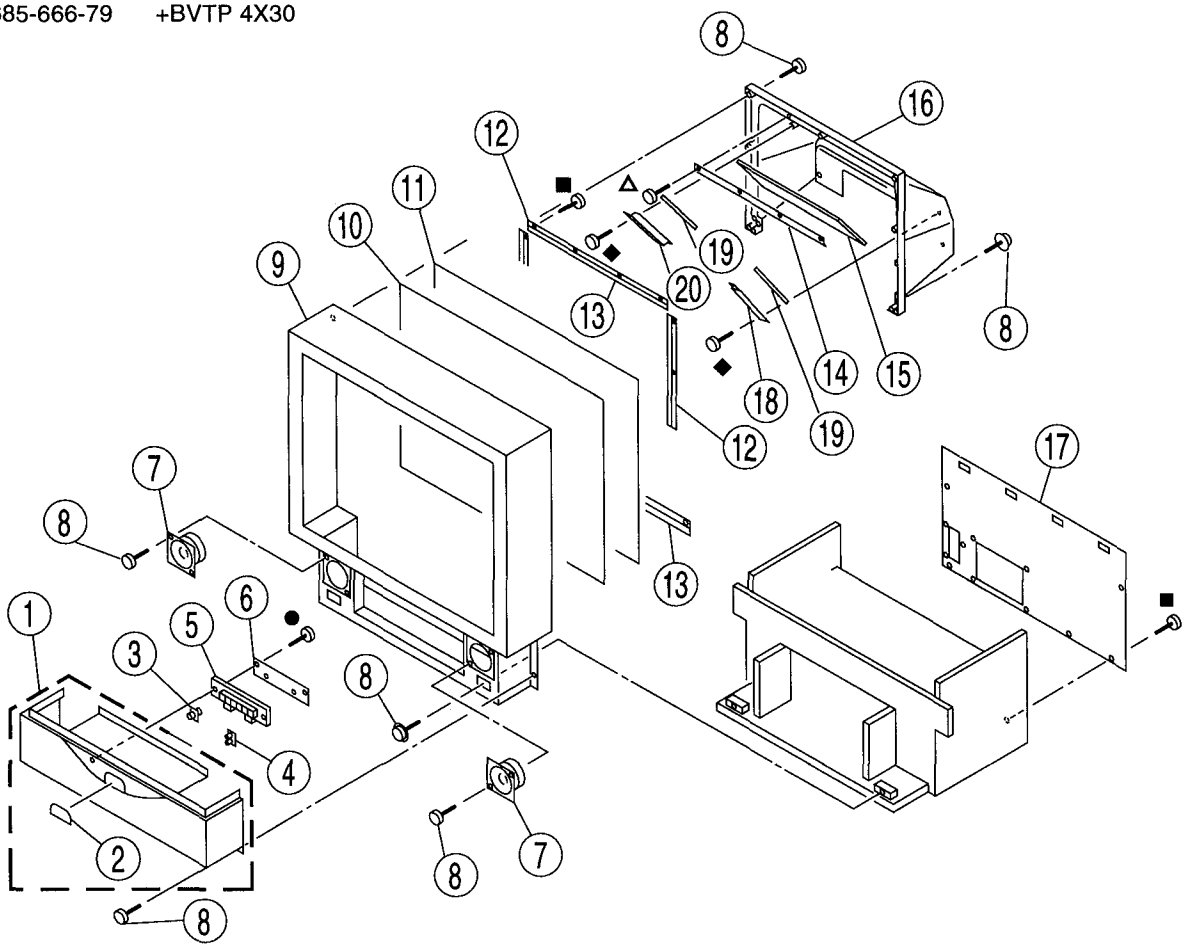
Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite
Ne les remplacer que par une piece portant le numero specifie

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service Some delay should be anticipated when ordering these items

5-1. SCREEN AND CONTROL BLOCK

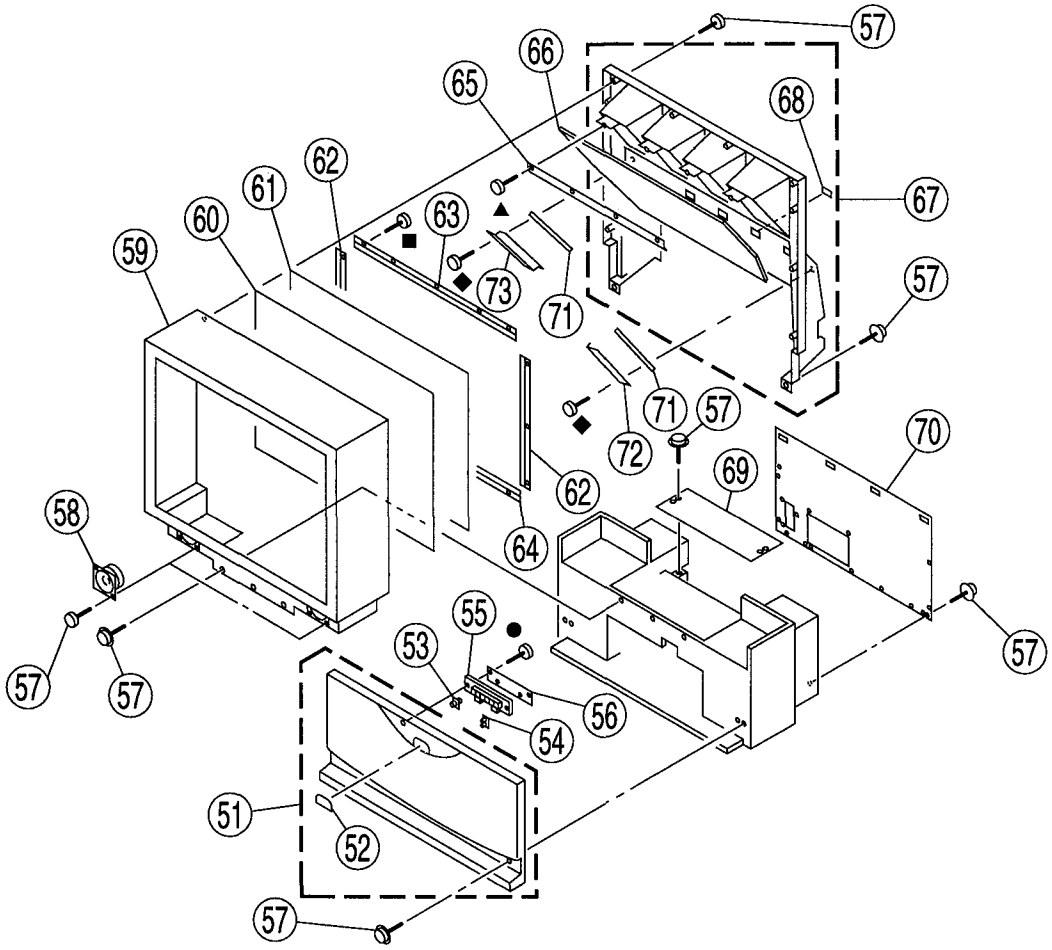
●	7-685-648-79	+BVTP 3X12
△	7-685-661-79	+BVTP 4X12
■	7-685-663-79	+BVTP 4X16
◆	7-685-666-79	+BVTP 4X30



REF NO	PART NO	DESCRIPTION	REMARK
1	X-4032-545-1	PANEL ASSY, CONTROL	
2	4-048-000-01	DOOR, CONTROL	
3	4-047-999-01	FILTER, REMOTE	
4	4-047-998-01	GUIDE, LIGHT, LED	
5	4-048-001-01	BUTTON, MULTI	
6	* A-1372-099-A	HA BOARD, COMPLETE	
7	1-504-785-11	SPEAKER (10CM)	
8	4-041-164-11	SCREW (4X20), TAPPING	
9	X-4032-546-1	BEZNET ASSY	
10	4-034-053-01	PLATE (L), DIFFUSION	
11	4-047-943-11	PLATE (F), DIFFUSION	
12	4-036-092-01	HOLDER (S), SCREEN	
13	4-036-091-31	HOLDER (L), SCREEN	
14	* 4-037-351-01	HOLDER, MIRROR	
	* 4-037-351-01	HOLDER, MIRROR	
15	4-047-861-01	MIRROR (41), REFLECTION	
16	X-4032-607-1	COVER, MIRROR	
17	* 4-047-837-01	PLATE (41), REAR	
18	* 4-049-096-01	HOLDER (RIGHT), SIDE	(KP-46S17/46S25/53S17/53S25)
19	* 4-049-098-01	CUSHION	(KP-46S17/46S25/53S17/53S25)
20	* 4-049-097-01	HOLDER (LEFT), SIDE	(KP-46S17/46S25/53S17/53S25)

5-2. MIRROR COVER AND POWER BLOCK

- ● 7-685-648-79 +BVTP 3X12
- ▲ 7-685-661-79 +BVTP 4X12
- ■ 7-685-663-79 +BVTP 4X16
- ◆ 7-685-666-79 +BVTP 4X30



REF NO.	PART NO	DESCRIPTION	REMARK
51	X-4032-614-2	GRILLE ASSY, SPEAKER	
52	4-048-000-01	DOOR, CONTROL	
53	4-047-999-01	FILTER, REMOTE	
54	4-047-998-01	GUIDE, LIGHT, LED	
55	4-048-001-01	BUTTON, MULTI	
56	* A-1372-099-A	HA BOARD, COMPLETE	
57	4-041-164-11	SCREW (4X20), TAPPING	
58	1-504-785-11	SPEAKER (10CM)	
59	X-4032-617-2	BEZNET ASSY (46S) (KP-46S17/46S25)	
	X-4032-618-1	BEZNET ASSY (53S) (KP-53S17/53S25)	
60	4-036-466-11	PLATE (L), DIFFUSION (KP-53S17/53S25)	
	4-037-360-11	PLATE (L), DIFFUSION (KP-46S17/46S25)	
61	4-036-469-01	PLATE (F), DIFFUSION (KP-53S17/53S25)	
	4-048-205-11	PLATE (F), DIFFUSION (KP-46S17/46S25)	
62	* 4-048-152-01	HOLDER (S), SCREEN (KP-46S17/46S25)	
	* 4-048-152-11	HOLDER (S), SCREEN (KP-53S17/53S25)	

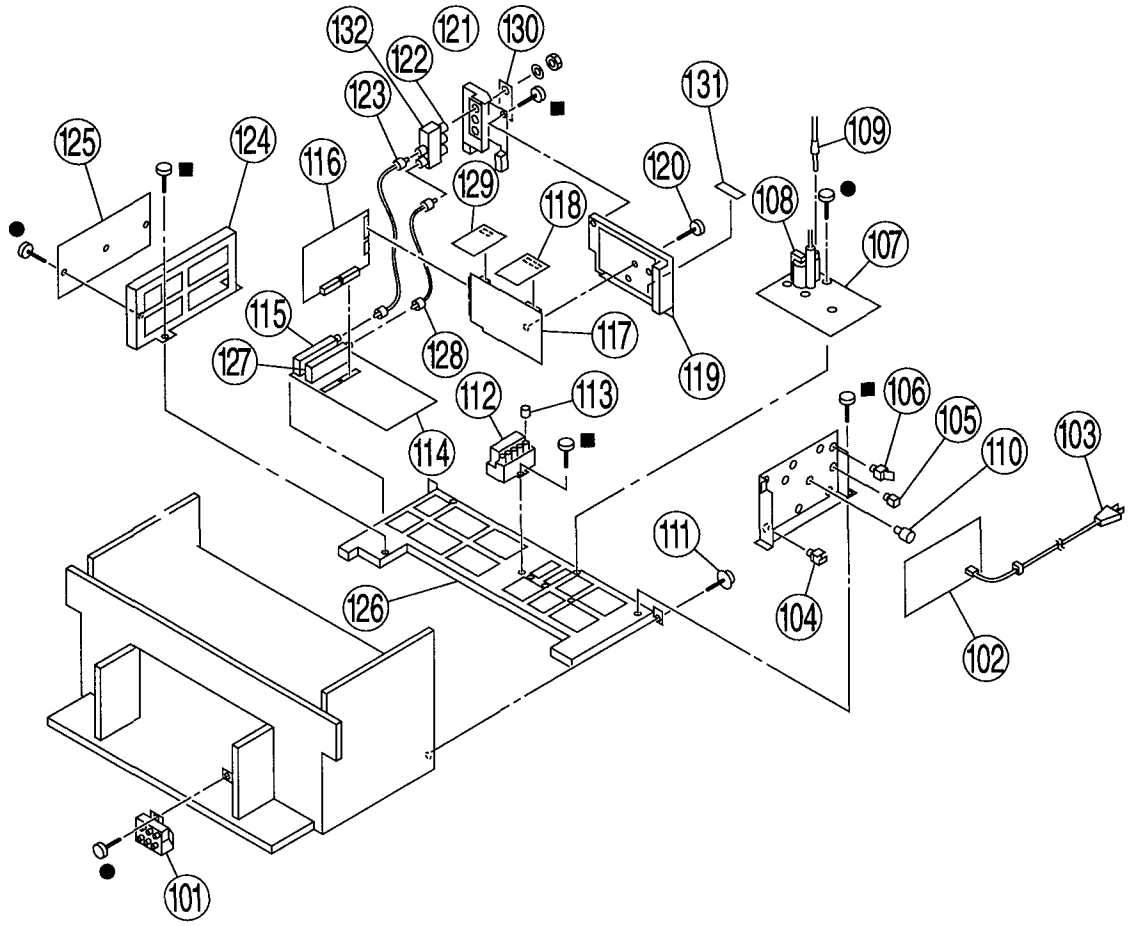
REF NO	PART NO	DESCRIPTION	REMARK
52			
63	* 4-048-159-01	HOLDER (L), SCREEN (KP-46S17/46S25)	
	* 4-048-159-11	HOLDER (L), SCREEN (KP-53S17/53S25)	
64	* 4-048-159-21	HOLDER (L), SCREEN (KP-46S17/46S25)	
	* 4-048-159-31	HOLDER (L), SCREEN (KP-53S17/53S25)	
65	4-036-092-01	HOLDER, MIRROR	
66	4-048-181-01	MIRROR (46), REFLECTION (KP-46S17/46S25)	
	4-048-181-01	MIRROR (53), REFLECTION (KP-53S17/53S25)	
67	* X-4032-619-3	COVER ASSY, MIRROR (KP-46S17/46S25)	
	* X-4032-620-3	COVER ASSY, MIRROR (KP-53S17/53S25)	
69	* 4-048-160-01	PLATE, SHIELD (KP-46S17/46S25)	
	* 4-048-161-01	PLATE, SHIELD (KP-53S17/53S25)	
70	* 4-048-168-01	PLATE, REAR (KP-53S17/53S25)	
	* 4-048-169-01	PLATE, REAR (KP-46S17/46S25)	
71	* 4-049-098-01	CUSHION	
72	* 4-049-096-01	HOLDER (RIGHT), SIDE	
73	* 4-049-097-01	HOLDER (LEFT), SIDE	

The componants identified by shading and mark ⚠ are critical for safety
Replace only with part number specified

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite
Ne les remplacer que par une piece portant le numero specifie

5-3. DC AND E BLOCK

● 7-685-648-79 +BVTP 3X12
■ 7-685-663-79 +BVTP 4X16



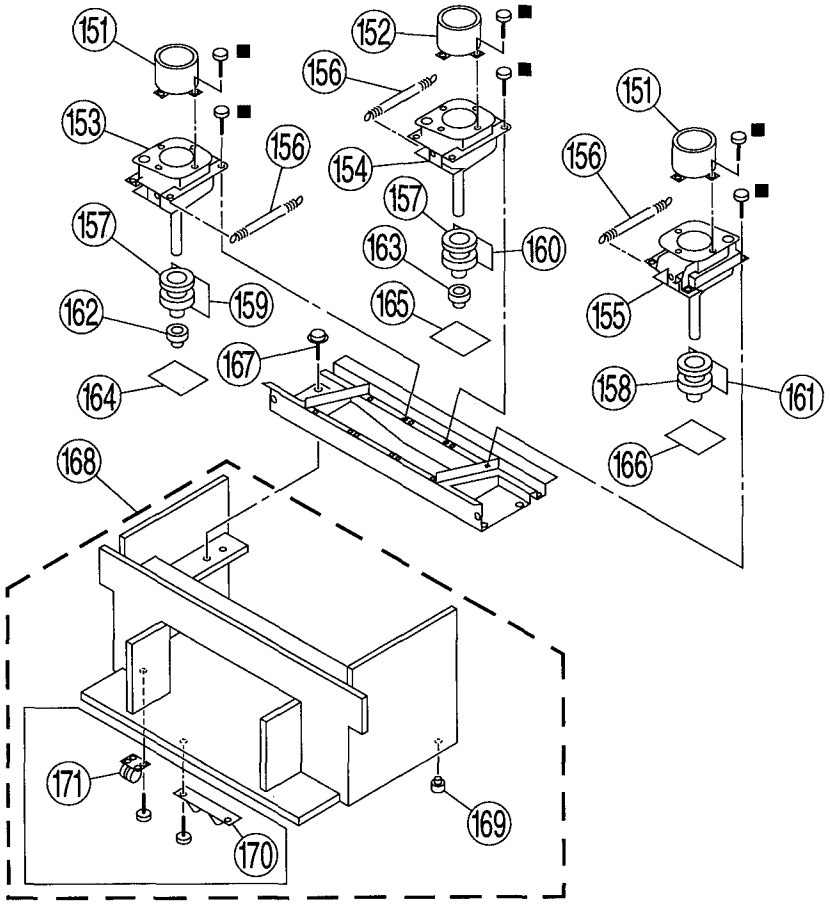
REF NO	PART NO	DESCRIPTION	REMARK
101	⚠ 1-223-925-21	RESISTOR ASSY (HIGH-VOLTAGE)	
102	* A-1316-212-A	G BOARD, COMPLETE	
103	⚠ 1-769-837-11	CORD, POWER(WITH NOISE FILTER)	(7.0A/125V)
104	* 3-659-682-11	HOLDER, PC BOARD	
105	* 4-382-848-02	HOLDER, PCB	
106	* 3-703-141-11	HOLDER, PCB	
107	* A-1341-885-A	E BOARD, COMPLETE	
108	⚠ 1-453-189-11	TRANSFORMER ASSY, FLYBACK	(NX2631//A4S)
109	⚠ 1-900-211-34	LEAD ASSY, HV	
110	* 3-687-542-41	SPACER, PC BOARD SPACE	
111	4-041-164-11	SCREW (4X20), TAPPING	
112	⚠ 8-598-955-00	BLOCK ASSY, HIGH-VOLTAGE	
113	4-373-137-01	CAP (Z), RUBBER	
114	* A-1297-605-A	A BOARD, COMPLETE (KP-46S17/53S17)	
	* A-1297-813-A	A BOARD, COMPLETE (KP-46S25/53S25)	
	* A-1297-814-A	A BOARD, COMPLETE (KP-41T25)	
115	⚠ 8-598-254-00	TUNER (BTF-WA402)	
116	* A-1306-497-A	M BOARD, COMPLETE (KP-41T25)	
	* A-1306-498-A	M BOARD, COMPLETE (KP-46S17/53S17)	
	* A-1306-530-A	M BOARD, COMPLETE (KP-46S25/53S25)	
117	* A-1373-511-A	U BOARD, COMPLETE (KP-46S17/53S17)	
	* A-1373-562-A	U BOARD, COMPLETE	(KP-41T25/46S25/53S25)
118	* A-1195-062-A	P BOARD, COMPLETE	
119	4-047-951-01	TERMINAL BOARD (A)	
120	4-041-165-01	SCREW (3X12), TAPPING, +BV	
121	4-047-952-11	TERMINAL BOARD (B)	
122	1-561-306-00	JACK, PIN (F) (KP-46S17/53S17)	
123	1-556-945-21	CABLE, P-P	
124	* 4-047-950-01	BRACKET, D PC BOARD	
125	* A-1346-296-A	D BOARD, COMPLETE	
126	* 4-047-949-01	BRACKET, MAIN PC BOARD	
127	⚠ 8-598-047-11	TUNER, ET (BTF-LA401)	(KP-41T25/46S25/53S25)
128	1-557-056-41	CABLE, P-P	
129	* A-1394-681-A	TR2 BOARD, COMPLETE	
130	4-047-937-01	LAVEL (B), TERMINAL	(KP-46S17/46S25/53S17/53S25)
131	4-049-665-01	LAVEL, IN/OUT	
132	1-417-178-11	SELECTOR, ANTENA (AS-2)	(KP-46S17/46S25/53S17/53S25)

The componants identified by shading and mark ⚠ are critical for safety
Replace only with part number specified

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite
Ne les remplacer que par une piece portant le numero specifie.

5-4. SHIELD AND MIRROR HOLDER BLOCK

■ 7-685-663-79 +BVTP 4X16



REF NO	PART NO	DESCRIPTION	REMARK
151	4-034-057-01	LENS (LINNIT)	
152	4-034-057-11	LENS (LINNIT)	
153	⚠ 8-736-077-15	PITURE TUBE 07MAC2 (R) (KP-41T25/46S17/46S25)	
153	⚠ 8-736-077-25	PICTURE TUBE 07MAC3(R) (KP-53S17/53S25)	
154	⚠ 8-736-075-05	PICTURE TUBE 07MAC2(G)	
155	⚠ 8-736-076-15	PICTURE TUBE 07MAC2 (B) (KP-41T25/46S17/46S25)	
	⚠ 8-736-076-25	PICTURE TUBE 07MAC3(B) (KP-53S17/53S25)	
156	4-048-142-01	SPRING, TENSION	
157	⚠ 8-451-463-11	DEFLECTION YOKE (Y829PA2N)	
158	⚠ 8-451-463-21	DEFLECTION YOKE (Y829PA2N2)	
159	* A-1390-487-A	ZR BOARD, COMPLETE (KP-41T25)	
	* A-1390-513-A	ZR BOARD, COMPLETE (KP-46S17/46S25/53S17/53S25)	
160	* A-1390-489-A	ZG BOARD, COMPLETE (KP-41T25)	
	* A-1390-512-A	ZG BOARD, COMPLETE (KP-46S17/46S25/53S17/53S25)	
161	* A-1390-491-A	ZB BOARD, COMPLETE	
162	⚠ 1-452-790-21	NECK ASSY (KP-41T25)	
163	⚠ 1-452-790-11	NECK ASSY (KP-41T25)	
164	* A-1331-498-A	CR BOARD, COMPLETE	
165	* A-1331-499-A	CG BOARD, COMPLETE	
166	* A-1331-500-A	CB BOARD, COMPLETE	
167	4-052-894-01	SCREW (4X20), TAPPING	
168	* X-4032-547-1	CABINET ASSY, BOTTOM (KP-41T25)	169
	* X-4032-615-1	CABINET ASSY, BOTTOM (KP-46S17/46S25)	171,170
168	* X-4032-616-1	CABINET ASSY, BOTTOM (KP-53S17/53S25)	171,170
169	4-047-987-01	FOOT (KP-41T25)	
170	4-048-175-01	FOOT, PLASTIC (KP-46S17/46S25/53S17/53S25)	
171	4-040-755-01	CASTER (DIA 30) (KP-46S17/46S25/53S17/53S25)	

SECTION 6
ELECTRICAL PARTS LIST

P

NOTE:

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite Ne les remplacer que par une piece portant le numero specifie

The componants identified by shading and mark ⚠ are critical for safety
Replace only with part number specified

- The components identified by ⋈ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

- CAPACITORS
  PF : μμ F
- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

REF NO	PART NO	DESCRIPTION			REMARK
	* A-1195-062-A	P BOARD, COMPLETE **********			
		<CAPACITOR>			
C3201	1-126-967-11	ELECT	47MF	20%	16V
C3203	1-164-004-11	CERAMIC CHIP	0 1MF	10%	25V
C3204	1-126-964-11	ELECT	10MF	20%	50V
C3205	1-126-964-11	ELECT	10MF	20%	50V
C3206	1-126-964-11	ELECT	10MF	20%	50V
C3207	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C3208	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C3209	1-126-962-11	ELECT	3 3MF	20%	50V
C3210	1-126-967-11	ELECT	47MF	20%	16V
C3212	1-126-962-11	ELECT	3 3MF	20%	50V
C3213	1-164-346-11	CERAMIC CHIP	1MF		16V
C3214	1-164-346-11	CERAMIC CHIP	1MF		16V
C3215	1-164-346-11	CERAMIC CHIP	1MF		16V
C3216	1-164-005-11	CERAMIC CHIP	0 47MF		25V
C3217	1-164-346-11	CERAMIC CHIP	1MF		16V
C3218	1-164-346-11	CERAMIC CHIP	1MF		16V
C3219	1-126-935-11	ELECT	470MF	20%	16V
C3220	1-164-346-11	CERAMIC CHIP	1MF		16V
C3221	1-164-346-11	CERAMIC CHIP	1MF		16V
C3222	1-164-336-11	CERAMIC CHIP	0 33MF		25V
C3223	1-164-336-11	CERAMIC CHIP	0 33MF		25V
C3224	1-164-222-11	CERAMIC CHIP	0 22MF		25V
C3225	1-164-222-11	CERAMIC CHIP	0 22MF		25V
C3226	1-164-005-11	CERAMIC CHIP	0 47MF		25V
C3227	1-164-346-11	CERAMIC CHIP	1MF		16V
C3228	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C3229	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
C3230	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C3231	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C3232	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C3233	1-164-232-11	CERAMIC CHIP	0 01MF	10%	50V
C3234	1-164-232-11	CERAMIC CHIP	0 01MF	10%	50V
C3235	1-164-232-11	CERAMIC CHIP	0 01MF	10%	50V
C3236	1-164-232-11	CERAMIC CHIP	0 01MF	10%	50V
C3237	1-164-232-11	CERAMIC CHIP	0 01MF	10%	50V
C3238	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
C3239	1-163-141-00	CERAMIC CHIP	0 001MF	5%	50V
C3240	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
C3241	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C3242	1-164-232-11	CERAMIC CHIP	0 01MF	10%	50V
C3243	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C3244	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C3245	1-164-232-11	CERAMIC CHIP	0 01MF	10%	50V
C3246	1-164-232-11	CERAMIC CHIP	0 01MF	10%	50V
C3247	1-163-033-91	CERAMIC CHIP	0 022MF		50V
C3248	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C3249	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C3250	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C3251	1-164-232-11	CERAMIC CHIP	0 01MF	10%	50V
C3252	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C3253	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
C3254	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C3255	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
C3256	1-164-232-11	CERAMIC CHIP	0 01MF	10%	50V
C3257	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C3258	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C3259	1-163-111-00	CERAMIC CHIP	56PF	5%	50V
C3260	1-163-119-00	CERAMIC CHIP	120PF	5%	50V
C3261	1-163-141-00	CERAMIC CHIP	0 001MF	5%	50V
C3263	1-163-141-00	CERAMIC CHIP	0 001MF	5%	50V
C3264	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C3265	1-163-141-00	CERAMIC CHIP	0 001MF	5%	50V
C3266	1-163-141-00	CERAMIC CHIP	0 001MF	5%	50V
C3267	1-163-141-00	CERAMIC CHIP	0 001MF	5%	50V
C3268	1-163-141-00	CERAMIC CHIP	0 001MF	5%	50V
C3269	1-163-141-00	CERAMIC CHIP	0 001MF	5%	50V
C3270	1-165-319-11	CERAMIC CHIP	0 1MF		50V
C3271	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C3272	1-165-319-11	CERAMIC CHIP	0 1MF		50V
C3273	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C3274	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
C3275	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
C3276	1-163-111-00	CERAMIC CHIP	56PF	5%	50V
C3277	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
C3278	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
C3279	1-163-141-00	CERAMIC CHIP	0 001MF	5%	50V
C3280	1-126-964-11	ELECT	10MF	20%	50V
C3282	1-164-346-11	CERAMIC CHIP	1MF		16V
		<CONNECTOR>			
CN150	1-573-297-21	CONNECTOR, BOARD TO BOARD 18P			
		<DIODE>			
D3202	8-719-031-68	DIODE HVU359TRF			
D3203	8-719-404-46	DIODE MA110			
D3208	8-719-110-17	DIODE RD10ESB2			
D3209	8-719-110-17	DIODE RD10ESB2			
		<IC>			
IC3200	8-759-288-13	IC MSM51C262-ZS			
IC3201	8-759-093-29	IC MB86144BPF-G-BND			
IC3202	8-759-093-28	IC MB40176PF-G-BND-EF			
IC3203	8-759-093-28	IC MB40176PF-G-BND-EF			
IC3204	8-759-093-25	IC MB3512PFQ			
IC3205	8-759-243-19	IC TC7SU04F			
		<COIL>			
L3201	1-410-470-11	INDUCTOR 10UH			
L3202	1-408-424-00	INDUCTOR 180UH			

P A

REF NO.	PART NO	DESCRIPTION	REMARK
L3203	1-408-424-00	INDUCTOR 180UH	
L3204	1-410-476-11	INDUCTOR 33UH	
L3205	1-410-470-11	INDUCTOR 10UH	
L3206	1-410-387-11	INDUCTOR 33UH	
L3207	1-410-387-11	INDUCTOR 33UH	
L3208	1-410-387-11	INDUCTOR 33UH	
L3209	1-410-387-11	INDUCTOR 33UH	
		<TRANSISTOR>	
Q3201	8-729-216-22	TRANSISTOR 2SA1162-G	
Q3202	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q3203	8-729-216-22	TRANSISTOR 2SA1162-G	
Q3204	8-729-216-22	TRANSISTOR 2SA1162-G	
Q3206	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q3207	8-729-216-22	TRANSISTOR 2SA1162-G	
Q3208	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q3209	8-729-216-22	TRANSISTOR 2SA1162-G	
Q3210	8-729-216-22	TRANSISTOR 2SA1162-G	
		<RESISTOR>	
R3201	1-216-097-91	METAL GLAZE 100K 5% 1/10W	
R3202	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R3203	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R3204	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R3205	1-216-121-91	METAL GLAZE 1M 5% 1/10W	
R3207	1-216-295-91	CONDUCTOR, CHIP	
R3208	1-216-097-91	METAL GLAZE 100K 5% 1/10W	
R3209	1-216-079-00	METAL GLAZE 18K 5% 1/10W	
R3210	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R3211	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R3212	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R3213	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R3214	1-216-121-91	METAL GLAZE 1M 5% 1/10W	
R3215	1-216-057-00	METAL GLAZE 2 2K 5% 1/10W	
R3216	1-216-057-00	METAL GLAZE 2 2K 5% 1/10W	
R3217	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R3218	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R3219	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R3220	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R3221	1-216-655-11	METAL CHIP 1 5K 0 50% 1/10W	
R3222	1-216-655-11	METAL CHIP 1.5K 0 50% 1/10W	
R3223	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R3224	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R3225	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R3226	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R3227	1-216-647-11	METAL CHIP 680 0 50% 1/10W	
R3228	1-216-045-00	METAL GLAZE 680 5% 1/10W	
R3229	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R3230	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R3231	1-216-001-00	METAL GLAZE 10 5% 1/10W	
R3232	1-216-083-00	METAL GLAZE 27K 5% 1/10W	
R3233	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R3234	1-216-651-11	METAL CHIP 1K 0 50% 1/10W	
R3235	1-216-043-91	METAL GLAZE 560 5% 1/10W	
R3236	1-216-065-00	METAL GLAZE 4 7K 5% 1/10W	
R3237	1-216-043-91	METAL GLAZE 560 5% 1/10W	
R3238	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R3239	1-216-043-91	METAL GLAZE 560 5% 1/10W	
R3241	1-216-057-00	METAL GLAZE 2 2K 5% 1/10W	
R3242	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R3243	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R3244	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R3245	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R3246	1-216-069-00	METAL GLAZE 6 8K 5% 1/10W	
R3247	1-216-063-91	METAL GLAZE 3 9K 5% 1/10W	
R3248	1-216-295-91	CONDUCTOR, CHIP	
R3249	1-216-057-00	METAL GLAZE 2 2K 5% 1/10W	

REF NO	PART NO.	DESCRIPTION	REMARK
R3250	1-216-043-91	METAL GLAZE 560 5% 1/10W	
R3251	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R3252	1-216-043-91	METAL GLAZE 560 5% 1/10W	
R3253	1-216-065-00	METAL GLAZE 4 7K 5% 1/10W	
R3254	1-216-043-91	METAL GLAZE 560 5% 1/10W	
R3255	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R3256	1-216-043-91	METAL GLAZE 560 5% 1/10W	
R3259	1-216-298-00	METAL GLAZE 2 2 5% 1/10W	
R3260	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R3263	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R3264	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R3265	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R3266	1-216-057-00	METAL GLAZE 2 2K 5% 1/10W	
R3267	1-216-055-00	METAL GLAZE 1 8K 5% 1/10W	
R3268	1-216-053-00	METAL GLAZE 1 5K 5% 1/10W	
R3269	1-216-057-00	METAL GLAZE 2 2K 5% 1/10W	
R3270	1-216-657-11	METAL CHIP 1 8K 0 50% 1/10W	
R3271	1-216-655-11	METAL CHIP 1 5K 0.50% 1/10W	
R3273	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R3274	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R3275	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R3276	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R3277	1-216-298-00	METAL GLAZE 2 2 5% 1/10W	
		<CRYSTAL>	
X3201	1-567-878-11	VIBRATOR, CRYSTAL	
X3202	1-567-878-11	VIBRATOR, CRYSTAL	

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* A-1297-605-A A BOARD, COMPLETE (KP-46S17/53S17)
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* A-1297-813-A A BOARD, COMPLETE (KP-46S25/53S25)
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* A-1297-814-A A BOARD, COMPLETE (KP-41T25)
****

4-365-216-00 SPACER, MICA
4-382-854-11 SCREW (M3X10), P, SW (+)
7-322-065-19 RUBBER, SILICON RTV (KE490W) (KP-41T25/46S25/53S25)

<CAPACITOR>

C201	1-104-665-11	ELECT 100MF	20%	25V
C202	1-102-125-00	CERAMIC 0 0047MF	10%	50V
C203	1-130-489-00	FILM 0 033MF	5%	50V
C204	1-124-902-00	ELECT 0 47MF	20%	50V
C205	1-104-665-11	ELECT 100MF	20%	25V
C206	1-124-902-00	ELECT 0 47MF	20%	50V
C207	1-124-903-11	ELECT 1MF	20%	50V
C208	1-124-768-11	ELECT 4 7MF	20%	50V
C209	1-124-903-11	ELECT 1MF	20%	50V
C210	1-102-125-00	CERAMIC 0 0047MF	10%	50V
C211	1-130-489-00	FILM 0.033MF	5%	50V
C212	1-124-768-11	ELECT 4 7MF	20%	50V
C220	1-126-964-11	ELECT 10MF	20%	50V
C221	1-126-964-11	ELECT 10MF	20%	50V
C222	1-126-964-11	ELECT 10MF	20%	50V
C223	1-126-964-11	ELECT 10MF	20%	50V
C226	1-104-665-11	ELECT 100MF	20%	25V
C232	1-104-664-11	ELECT 47MF	20%	25V
C233	1-104-664-11	ELECT 47MF	20%	25V
C234	1-104-664-11	ELECT 47MF	20%	25V
C236	1-124-902-00	ELECT 0 47MF	20%	50V
C238	1-104-665-11	ELECT 100MF	20%	25V
C239	1-126-943-11	ELECT 2200MF	20%	25V

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REF. NO.	PART NO.	DESCRIPTION				REMARK
C240	1-126-943-11	ELECT	2200MF	20%	25V	
C241	1-137-399-11	FILM	0.1MF	5%	50V	
C242	1-137-399-11	FILM	0 1MF	5%	50V	
C243	1-137-399-11	FILM	0.1MF	5%	50V	
C244	1-104-665-11	ELECT	100MF	20%	25V	
C245	1-137-399-11	FILM	0.1MF	5%	50V	
C262	1-104-664-11	ELECT	47MF	20%	25V	
C263	1-104-665-11	ELECT	100MF	20%	25V	
C264	1-104-665-11	ELECT	100MF	20%	25V	
C265	1-104-665-11	ELECT	100MF	20%	25V	
C266	1-104-665-11	ELECT	100MF	20%	25V	
C267	1-104-664-11	ELECT	47MF	20%	25V	
C501	1-124-902-00	ELECT	0.47MF	20%	50V	
C502	1-104-664-11	ELECT	47MF	20%	25V	
C503	1-137-370-11	FILM	0 01MF	5%	50V	
C504	1-102-973-00	CERAMIC	100PF	5%	50V	
C505	1-137-372-11	FILM	0.022MF	5%	50V	
C506	1-123-024-21	ELECT	33MF		160V	
C507	1-107-368-11	FILM	0 047MF	10%	200V	
C508	1-107-638-11	ELECT	33MF	20%	160V	
C509	1-107-368-11	FILM	0 047MF	10%	200V	
C510	1-102-030-00	CERAMIC	330PF	10%	500V	
C511	1-137-414-11	FILM	0 0047MF	10%	100V	
C512	1-162-115-00	CERAMIC	330PF	10%	2KV	
C513	1-136-598-11	FILM	3MF	5%	200V	
C514	1-136-613-11	FILM	0 0068MF	3%	2KV	
C515	1-162-114-00	CERAMIC	0 0047MF		2KV	
C516	1-107-719-11	ELECT	220MF	20%	50V	
C517	1-126-971-11	ELECT	470MF	20%	50V	
C518	1-126-971-11	ELECT	470MF	20%	50V	
C519	1-124-903-11	ELECT	1MF	20%	50V	
C1001	1-126-963-11	ELECT	4 7MF	20%	50V	
C1002	1-126-964-11	ELECT	10MF	20%	50V	(KP-41T25/46S25/53S25)
C1003	1-126-965-11	ELECT	22MF	20%	50V	(KP-41T25/46S25/53S25)
C1004	1-126-952-11	ELECT	1000MF	20%	16V	
C1005	1-104-665-11	ELECT	100MF	20%	25V	
C1006	1-101-004-00	CERAMIC	0 01MF		50V	
C1007	1-126-935-11	ELECT	470MF	20%	16V	
C1008	1-101-004-00	CERAMIC	0 01MF		50V	
C1009	1-126-964-11	ELECT	10MF	20%	50V	(KP-41T25/46S25/53S25)
C1010	1-126-964-11	ELECT	10MF	20%	50V	
C1011	1-102-121-00	CERAMIC	0 0022MF	10%	50V	(KP-41T25/46S25/53S25)
C1012	1-102-121-00	CERAMIC	0 0022MF	10%	50V	
		<CONNECTOR>				
CN221	1-573-298-21	CONNECTOR, BOARD TO BOARD 20P				
CN222	1-573-298-21	CONNECTOR, BOARD TO BOARD 20P				
CN223	* 1-564-507-11	PLUG, CONNECTOR 4P				
CN224	* 1-564-507-11	PLUG, CONNECTOR 4P				
CN225	* 1-564-513-11	PLUG, CONNECTOR 10P				
CN511	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P				
CN527	* 1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P				
CN528	1-695-915-11	TAB (CONTACT)				
CN541	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P				
CN571	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P				
CN1026	* 1-564-506-11	PLUG, CONNECTOR 3P				
		<DIODE>				
D201	8-719-110-17	DIODE RD10ESB2				
D202	8-719-110-17	DIODE RD10ESB2				
D220	8-719-991-33	DIODE 1SS133T-77				
D221	8-719-991-33	DIODE 1SS133T-77				
D231	8-719-991-33	DIODE 1SS133T-77				

REF NO	PART NO	DESCRIPTION	REMARK
D232	8-719-991-33	DIODE 1SS133T-77	
D235	8-719-991-33	DIODE 1S8133T-77	
D262	8-719-991-33	DIODE 1SS133T-77	
D263	8-719-991-33	DIODE 1SS133T-77	
D264	8-719-991-33	DIODE 1SS133T-77	
D501	8-719-991-33	DIODE 1SS133T-77	
D502	8-719-983-14	DIODE MTZJ-T-77-3.9	
D504	8-719-991-33	DIODE 1SS133T-77	
D505	8-719-991-33	DIODE 1SS133T-77	
D506	8-719-300-80	DIODE RU-1C	
D507	8-719-018-82	DIODE RGP02-20EL-6394	
D509	8-719-900-95	DIODE V09G	
D510	8-719-900-95	DIODE V09G	
D511	8-719-991-33	DIODE 1SS133T-77	
D1001	8-719-982-24	DIODE MTZJ-33A	
D1002	8-719-110-88	DIODE RD39ESB2 (KP-41T25/46S25/53S25)	
		<IC>	
IC201	8-759-135-80	IC uPC358C	
IC202	8-759-090-21	IC TDA8424	
IC230	8-759-190-89	IC TDA7265	
IC262	8-759-054-12	IC PQ09RA1	
IC263	8-759-504-46	IC PQ05RF1	
IC264	8-759-279-76	IC MCT7812CT	
IC1001	8-759-300-71	IC HD14053BFP (KP-41T25/46S25/53S25)	
		<COIL>	
L501	1-411-189-11	COIL, CHOKE 15mH	
L503	1-406-832-11	COIL,HORIZONTAL LINEARITY(HLC)	
L1001	1-408-408-00	INDUCTOR 8.2UH	
L1002	1-408-408-00	INDUCTOR 8.2UH	
L1003	1-408-421-00	INDUCTOR 100UH	
L1004	1-408-408-00	INDUCTOR 8 2UH (KP-41T25/46S25/53S25)	
L1006	1-408-408-00	INDUCTOR 8 2UH (KP-41T25/46S25/53S25)	
L1007	1-408-408-00	INDUCTOR 8 2UH (KP-41T25/46S25/53S25)	
		<TRANSISTOR>	
Q220	8-729-927-14	TRANSISTOR DTC323TS	
Q221	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q222	8-729-927-14	TRANSISTOR DTC323TS	
Q223	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q230	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q231	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q232	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q234	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q235	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q236	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q501	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q502	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q503	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q504	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q505	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q506	8-729-201-32	TRANSISTOR 2SA1013-O	
Q507	8-729-304-92	TRANSISTOR 2SB649A-C	
Q508	8-729-201-32	TRANSISTOR 2SA1013-O	
Q509	8-729-010-98	TRANSISTOR 2SA1492M-OPY	
Q510	8-729-021-48	TRANSISTOR 2SD2348LBSONY	
Q511	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1001	8-729-119-76	TRANSISTOR 2SA1175-HFE	(KP-41T25/46S25/53S25)
Q1002	8-729-119-76	TRANSISTOR 2SA1175-HFE	(KP-41T25/46S25/53S25)
Q1003	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1004	8-729-119-78	TRANSISTOR 2SC2785-HFE	

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Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite Ne les remplacer que par une piece portant le numero specifie

The componants identified by shading and mark ⚠ are critical for safety Replace only with part number specified

REF. NO	PART NO	DESCRIPTION			REMARK
		<RESISTOR>			
R201	1-249-429-11	CARBON	10K	5%	1/4W
R203	1-249-429-11	CARBON	10K	5%	1/4W
R204	1-249-429-11	CARBON	10K	5%	1/4W
R205	1-249-429-11	CARBON	10K	5%	1/4W
R207	1-249-431-11	CARBON	15K	5%	1/4W
R208	1-249-429-11	CARBON	10K	5%	1/4W
R209	1-249-431-11	CARBON	15K	5%	1/4W
R210	1-247-815-91	CARBON	220	5%	1/4W
R211	1-249-429-11	CARBON	10K	5%	1/4W
R212	1-249-441-11	CARBON	100K	5%	1/4W
R213	1-249-441-11	CARBON	100K	5%	1/4W
R214	1-247-815-91	CARBON	220	5%	1/4W
R215	1-249-441-11	CARBON	100K	5%	1/4W
R216	1-249-441-11	CARBON	100K	5%	1/4W
R217	1-247-807-31	CARBON	100	5%	1/4W
R218	1-247-807-31	CARBON	100	5%	1/4W
R219	1-249-417-11	CARBON	1K	5%	1/4W
R220	1-249-429-11	CARBON	10K	5%	1/4W
R221	1-249-437-11	CARBON	47K	5%	1/4W
R222	1-249-417-11	CARBON	1K	5%	1/4W
R223	1-249-429-11	CARBON	10K	5%	1/4W
R224	1-249-429-11	CARBON	10K	5%	1/4W
R230	1-249-430-11	CARBON	12K	5%	1/4W
R231	1-249-429-11	CARBON	10K	5%	1/4W
R233	1-249-429-11	CARBON	10K	5%	1/4W
R234	1-249-441-11	CARBON	100K	5%	1/4W
R235	1-249-414-11	CARBON	560	5%	1/4W
R236	1-249-432-11	CARBON	18K	5%	1/4W
R237	1-249-414-11	CARBON	560	5%	1/4W
R238	1-249-431-11	CARBON	15K	5%	1/4W
R239	1-249-430-11	CARBON	12K	5%	1/4W
R241	1-249-439-11	CARBON	68K	5%	1/4W
R242	1-249-432-11	CARBON	18K	5%	1/4W
R243	1-247-863-91	CARBON	22K	5%	1/4W
R244	1-247-863-91	CARBON	22K	5%	1/4W
R246	1-247-863-91	CARBON	22K	5%	1/4W
R247	1-249-430-11	CARBON	12K	5%	1/4W
R249	1-247-807-31	CARBON	100	5%	1/4W
R250	1-249-417-11	CARBON	1K	5%	1/4W
R251	1-249-437-11	CARBON	47K	5%	1/4W
R252	1-249-417-11	CARBON	1K	5%	1/4W
R255	1-249-429-11	CARBON	10K	5%	1/4W
R257	1-249-429-11	CARBON	10K	5%	1/4W
R258	1-249-429-11	CARBON	10K	5%	1/4W
R259	1-216-357-00	METAL OXIDE	4 7	5%	1W F
R260	1-216-357-00	METAL OXIDE	4 7	5%	1W F
R501	1-249-421-11	CARBON	2 2K	5%	1/4W
R502	1-249-429-11	CARBON	10K	5%	1/4W
R503	1-249-441-11	CARBON	100K	5%	1/4W
R504	1-249-429-11	CARBON	10K	5%	1/4W
R505	1-215-437-00	METAL	4 7K	1%	1/4W
R506	1-215-433-00	METAL	3 3K	1%	1/4W
R507	1-249-407-11	CARBON	150	5%	1/4W
R508	1-249-421-11	CARBON	2 2K	5%	1/4W
R509	1-249-423-11	CARBON	3 3K	5%	1/4W
R510	1-249-417-11	CARBON	1K	5%	1/4W
R511	1-247-895-91	CARBON	470K	5%	1/4W
R512	1-215-925-11	METAL OXIDE	22K	5%	3W F
R513	1-215-900-11	METAL OXIDE	22K	5%	2W F
R514	1-249-421-11	CARBON	2 2K	5%	1/4W F
R515	1-215-925-11	METAL OXIDE	22K	5%	3W F
R516	1-249-430-11	CARBON	12K	5%	1/4W F
R517	1-249-429-11	CARBON	10K	5%	1/4W
R518	1-249-427-11	CARBON	6 8K	5%	1/4W F
R519	1-249-417-11	CARBON	1K	5%	1/4W
R520	1-249-423-11	CARBON	3.3K	5%	1/4W F
R521	1-249-437-11	CARBON	47K	5%	1/4W

REF NO.	PART NO	DESCRIPTION			REMARK
R522	1-249-417-11	CARBON	1K	5%	1/4W F
R523	1-249-426-11	CARBON	5 6K	5%	1/4W F
R524	1-215-925-11	METAL OXIDE	22K	5%	3W F
R525	1-216-373-11	METAL OXIDE	2 2	5%	2W F
R526	1-216-478-11	METAL OXIDE	390	5%	3W F
R528	1-216-475-11	METAL OXIDE	120	5%	3W F (KP-41T25)
R528	1-216-477-11	METAL OXIDE	270	5%	3W F (KP-46S1746S25/53S17/53S25)
R529	1-215-912-11	METAL OXIDE	150	5%	3W F (KP-41T25)
R529	1-216-477-11	METAL OXIDE	270	5%	3W F (KP-46S1746S25/53S17/53S25)
R530	1-216-475-11	METAL OXIDE	120	5%	3W F (KP-41T25)
R530	1-216-477-11	METAL OXIDE	270	5%	3W F (KP-46S1746S25/53S17/53S25)
R531	1-215-912-11	METAL OXIDE	150	5%	3W F (KP-41T25)
R531	1-216-477-11	METAL OXIDE	270	5%	3W F (KP-46S1746S25/53S17/53S25)
R532	1-215-442-00	METAL	7 5K	1%	1/4W
R533	1-215-443-00	METAL	8 2K	1%	1/4W
R534	1-215-437-00	METAL	4 7K	1%	1/4W
R1001	1-215-900-11	METAL OXIDE	22K	5%	2W F
R1002	1-215-900-11	METAL OXIDE	22K	5%	2W F (KP-41T25/46S25/53S25)
R1003	1-249-411-11	CARBON	330	5%	1/4W (KP-41T25/46S25/53S25)
R1004	1-249-434-11	CARBON	27K	5%	1/4W (KP-41T25/46S25/53S25)
R1005	1-249-436-11	CARBON	39K	5%	1/4W (KP-41T25/46S25/53S25)
R1006	1-249-434-11	CARBON	27K	5%	1/4W
R1007	1-249-425-11	CARBON	4 7K	5%	1/4W
R1008	1-247-807-31	CARBON	100	5%	1/4W (KP-46S1746S25/53S17/53S25)
R1010	1-249-411-11	CARBON	330	5%	1/4W
R1011	1-249-425-11	CARBON	4 7K	5%	1/4W (KP-41T25/46S25/53S25)
R1012	1-249-425-11	CARBON	4 7K	5%	1/4W (KP-41T25/46S25/53S25)
R1013	1-247-807-31	CARBON	100	5%	1/4W (KP-41T25/46S25/53S25)
R1014	1-249-436-11	CARBON	39K	5%	1/4W
R1016	1-247-807-31	CARBON	100	5%	1/4W
R1017	1-249-417-11	CARBON	1K	5%	1/4W
R1018	1-215-432-00	METAL	3K	1%	1/4W
R1019	1-249-441-11	CARBON	100K	5%	1/4W

<TRANSFORMER>

T501 1-437-078-00 TRANSFORMER, HORIZONTAL DRIVE

<TUNER>

TU1001 ⚠ 8-598-047-11 TUNER (BTF-LA401) (KP-41T25/46S25/53S25)
TU1002 ⚠ 8-598-254-00 TUNER (BTF-WA402)

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M

REF NO	PART NO	DESCRIPTION			REMARK
	* A-1306-497-A	M BOARD, COMPLETE (KP-41T25) **********			
	* A-1306-498-A	M BOARD, COMPLETE (KP-46S17/53S17) **********			
	* A-1306-530-A	M BOARD, COMPLETE (KP-46S25/53S25) **********			
		<CAPACITOR>			
C001	1-126-935-11	ELECT	470MF	20%	16V
C002	1-126-916-11	ELECT	1000MF	20%	6 3V
C004	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C005	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C006	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C007	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C009	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C010	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C011	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C012	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C013	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C014	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C015	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C016	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C017	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C018	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C019	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C020	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C021	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C022	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C023	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C024	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C025	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C026	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C028	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C029	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C030	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C031	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C032	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C033	1-163-809-11	CERAMIC CHIP	0 047MF	10%	25V
C034	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C035	1-124-903-11	ELECT	1MF	20%	50V
C037	1-163-009-11	CERAMIC CHIP	0 001MF	10%	50V
C038	1-104-661-91	ELECT	330MF	20%	16V
C040	1-124-903-11	ELECT	1MF	20%	50V
C041	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C042	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C046	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C047	1-124-903-11	ELECT	1MF	20%	50V
C048	1-163-245-11	CERAMIC CHIP	56PF	5%	50V
C049	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C050	1-163-031-11	CERAMIC CHIP	0 01MF		50V
C051	1-163-017-00	CERAMIC CHIP	0 0047MF	10%	50V
C054	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C055	1-163-037-11	CERAMIC CHIP	0 022MF	10%	50V
C056	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C057	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C058	1-163-102-00	CERAMIC CHIP	24PF	5%	50V
C060	1-124-903-11	ELECT	1MF	20%	50V
C062	1-163-038-91	CERAMIC CHIP	0 1MF		25V
C063	1-126-964-11	ELECT	10MF	20%	50V
C064	1-126-964-11	ELECT	10MF	20%	50V
C065	1-163-038-91	CERAMIC CHIP	0 1MF		25V
C066	1-163-135-00	CERAMIC CHIP	560PF	5%	50V
C067	1-137-399-11	FILM	0 1MF	5%	50V
C068	1-137-367-11	FILM	0 0033MF	5%	50V
C069	1-137-375-11	FILM	0 068MF	5%	50V
C070	1-104-664-11	ELECT	47MF	20%	25V
C071	1-124-464-11	ELECT	0 22MF	20%	50V

REF. NO	PART NO	DESCRIPTION			REMARK
C074	1-104-661-91	ELECT	330MF	20%	16V
C075	1-163-031-11	CERAMIC CHIP	0 01MF		50V
C302	1-124-902-00	ELECT	0 47MF	20%	50V
C303	1-124-902-00	ELECT	0 47MF	20%	50V
C304	1-126-963-11	ELECT	4 7MF	20%	50V
C309	1-163-019-00	CERAMIC CHIP	0 0068MF	10%	50V
C310	1-163-017-00	CERAMIC CHIP	0 0047MF	10%	50V
C311	1-124-925-11	ELECT	2 2MF	20%	50V
C312	1-163-017-00	CERAMIC CHIP	0 0047MF	10%	50V
C313	1-104-664-11	ELECT	47MF	20%	25V
C314	1-163-031-11	CERAMIC CHIP	0 01MF		50V
C315	1-126-934-11	ELECT	220MF	20%	16V
C316	1-131-374-00	TANTALUM	33MF	10%	16V
C317	1-163-031-11	CERAMIC CHIP	0 01MF		50V
C318	1-124-925-11	ELECT	2 2MF	20%	50V
C319	1-124-903-11	ELECT	1MF	20%	50V
C320	1-124-903-11	ELECT	1MF	20%	50V
C321	1-163-017-00	CERAMIC CHIP	0 0047MF	10%	50V
C323	1-163-031-11	CERAMIC CHIP	0 01MF		50V
C324	1-126-965-11	ELECT	22MF	20%	50V
C327	1-163-139-00	CERAMIC CHIP	820PF	5%	50V
C328	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C329	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C338	1-126-963-11	ELECT	4 7MF	20%	50V
C339	1-124-464-11	ELECT	0.22MF	20%	50V
C340	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C341	1-124-902-00	ELECT	0 47MF	20%	50V
C342	1-124-902-00	ELECT	0 47MF	20%	50V
C343	1-124-902-00	ELECT	0 47MF	20%	50V
C344	1-163-031-11	CERAMIC CHIP	0 01MF		50V
C345	1-163-031-11	CERAMIC CHIP	0 01MF		50V
C346	1-163-031-11	CERAMIC CHIP	0 01MF		50V
C347	1-124-902-00	ELECT	0 47MF	20%	50V
C348	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C349	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C350	1-126-964-11	ELECT	10MF	20%	50V (KP-41T25)
C352	1-163-031-11	CERAMIC CHIP	0 01MF		50V
C353	1-104-665-11	ELECT	100MF	20%	25V
C354	1-163-235-11	CERAMIC CHIP	22PF	5%	50V (KP-41T25)
C355	1-126-965-11	ELECT	22MF	20%	50V (KP-41T25)
C357	1-104-664-11	ELECT	47MF	20%	25V (KP-41T25)
C358	1-163-231-11	CERAMIC CHIP	15PF	5%	50V (KP-41T25)
C359	1-163-125-00	CERAMIC CHIP	220PF	5%	50V (KP-41T25)
C360	1-126-964-11	ELECT	10MF	20%	50V (KP-41T25)
C361	1-126-964-11	ELECT	10MF	20%	50V (KP-41T25)
C362	1-163-235-11	CERAMIC CHIP	22PF	5%	50V (KP-41T25)
C363	1-163-009-11	CERAMIC CHIP	0 001MF	10%	50V (KP-41T25)
C364	1-126-964-11	ELECT	10MF	20%	50V (KP-41T25)
C365	1-163-235-11	CERAMIC CHIP	22PF	5%	50V (KP-41T25)
C366	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C368	1-163-227-11	CERAMIC CHIP	10PF	0 5PF	50V
C369	1-163-809-11	CERAMIC CHIP	0 047MF	10%	25V
C370	1-104-665-11	ELECT	100MF	20%	25V
C371	1-104-665-11	ELECT	100MF	20%	25V
		<CHIP CONDUCTOR>			
CJ001	1-216-295-91	CONDUCTOR, CHIP			

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REF. NO	PART NO	DESCRIPTION	REMARK
CJ002	1-216-295-91	CONDUCTOR, CHIP	
CJ003	1-216-295-91	CONDUCTOR, CHIP	
		<CONNECTOR>	
CN046	* 1-564-512-11	PLUG, CONNECTOR 9P	
CN052	* 1-564-507-11	PLUG, CONNECTOR 4P	(KP-41T25/46S25/53S25)
CN053	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN054	1-573-979-21	CONNECTOR, BOARD TO BOARD 11P	
CN304	* 1-564-512-11	PLUG, CONNECTOR 9P	
CN314	* 1-564-509-11	PLUG, CONNECTOR 6P (KP-41T25)	
CN321	1-573-301-21	CONNECTOR, BOARD TO BOARD 20P	
CN322	1-573-301-21	CONNECTOR, BOARD TO BOARD 20P	
CN351	* 1-564-509-11	PLUG, CONNECTOR 6P	
CN355	* 1-565-930-11	CONNECTOR (RECEPTACLE) 30P	
CN356	* 1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)	
CN357	* 1-564-516-11	PLUG, CONNECTOR 13P	
CN358	* 1-564-508-11	PLUG, CONNECTOR 5P	
		<DIODE>	
D001	8-719-404-46	DIODE MA110	
D002	8-719-404-46	DIODE MA110	
D003	8-719-404-46	DIODE MA110	
D004	8-719-109-89	DIODE RD5 6ESB2	
D005	8-719-109-89	DIODE RD5 6ESB2	
D006	8-719-109-89	DIODE RD5 6ESB2	
D007	8-719-109-89	DIODE RD5.6ESB2	
D008	8-719-002-81	DIODE 1T363	
D009	8-719-404-46	DIODE MA110	
D010	8-719-404-46	DIODE MA110	
D011	8-719-404-46	DIODE MA110	
D012	8-719-404-46	DIODE MA110	
D013	8-719-404-46	DIODE MA110	
D014	8-719-404-46	DIODE MA110	
D015	8-719-404-46	DIODE MA110	
D016	8-719-404-46	DIODE MA110	
D017	8-719-404-46	DIODE MA110	
D018	8-719-404-46	DIODE MA110	
D019	8-719-404-46	DIODE MA110	
D020	8-719-105-91	DIODE RD5 6M-B2	
D305	8-719-923-60	DIODE MTZJ-T-77-9 1A	
D307	8-719-923-60	DIODE MTZJ-T-77-9 1A	
D308	8-719-110-22	DIODE RD11ESB2	
D309	8-719-109-84	DIODE RD5 1ESB1	
D310	8-719-914-44	DIODE DAP202K	
D311	8-719-914-43	DIODE DAN202K	
D312	8-719-404-46	DIODE MA110	
D313	8-719-404-46	DIODE MA110	
D314	8-719-404-46	DIODE MA110	
D315	8-719-109-89	DIODE RD5 6ESB2	
D316	8-719-404-46	DIODE MA110	
D317	8-719-110-22	DIODE RD11ESB2	
D320	8-719-404-46	DIODE MA110 (KP-41T25)	
D321	8-719-404-46	DIODE MA110 (KP-41T25)	
D322	8-719-404-46	DIODE MA110 (KP-41T25)	
D323	8-719-404-46	DIODE MA110 (KP-41T25)	
D324	8-719-404-46	DIODE MA110 (KP-41T25)	
D325	8-719-404-46	DIODE MA110 (KP-41T25)	
D326	8-719-110-08	DIODE RD8 2ESB2	
D327	8-719-404-46	DIODE MA110	
D328	8-719-991-33	DIODE 1SS133T-77	
		<IC>	
IC001	8-759-112-06	IC uPC78N05H	
IC002	8-752-859-03	IC CXP85332A-056S	
IC003	8-759-370-33	IC ST24C04FB6	
IC004	8-759-328-12	IC Z8622812PSC	
IC005	8-759-370-31	IC ST24C01FB6	
IC006	8-759-403-44	IC MN1280-S	
IC301	8-752-063-50	IC CXA1477AS	
IC302	8-759-231-53	IC TA7805S	
		<COIL>	
L003	1-410-470-11	INDUCTOR 10UH	
L004	1-410-476-11	INDUCTOR 33UH	
L005	1-410-470-11	INDUCTOR 10UH	
L006	1-410-470-11	INDUCTOR 10UH	
L302	1-408-413-00	INDUCTOR 22UH (KP-41T25)	
L303	1-408-416-00	INDUCTOR 39UH (KP-41T25)	
L304	1-410-468-11	INDUCTOR 6 8UH	
		<TRANSISTOR>	
Q001	8-729-216-22	TRANSISTOR 2SA1162-G	
Q002	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q003	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q004	8-729-216-22	TRANSISTOR 2SA1162-G	
Q005	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q006	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q007	8-729-216-22	TRANSISTOR 2SA1162-G	
Q008	8-729-216-22	TRANSISTOR 2SA1162-G	
Q009	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q010	8-729-216-22	TRANSISTOR 2SA1162-G	
Q011	8-729-216-22	TRANSISTOR 2SA1162-G	
Q012	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q013	8-729-216-22	TRANSISTOR 2SA1162-G	(KP-41T25/46S25/53S25)
Q014	8-729-216-22	TRANSISTOR 2SA1162-G	(KP-41T25/46S25/53S25)
Q015	8-729-422-27	TRANSISTOR 2SD601A-Q	(KP-41T25/46S25/53S25)
Q016	8-729-216-22	TRANSISTOR 2SA1162-G	(KP-41T25/46S25/53S25)
Q017	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q018	8-729-216-22	TRANSISTOR 2SA1162-G	
Q019	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q301	8-729-216-22	TRANSISTOR 2SA1162-G	
Q302	8-729-216-22	TRANSISTOR 2SA1162-G	
Q303	8-729-216-22	TRANSISTOR 2SA1162-G	
Q304	8-729-216-22	TRANSISTOR 2SA1162-G	
Q305	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q307	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q308	8-729-216-22	TRANSISTOR 2SA1162-G	
Q309	8-729-216-22	TRANSISTOR 2SA1162-G	
Q310	8-729-422-27	TRANSISTOR 2SD601A-Q (KP-41T25)	
Q311	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q312	8-729-422-27	TRANSISTOR 2SD601A-Q (KP-41T25)	
Q313	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q314	8-729-422-27	TRANSISTOR 2SD601A-Q (KP-41T25)	
Q315	8-729-422-27	TRANSISTOR 2SD601A-Q (KP-41T25)	
Q316	8-729-422-27	TRANSISTOR 2SD601A-Q (KP-41T25)	
Q317	8-729-216-22	TRANSISTOR 2SA1162-G (KP-41T25)	
Q318	8-729-422-27	TRANSISTOR 2SD601A-Q (KP-41T25)	
Q319	8-729-422-27	TRANSISTOR 2SD601A-Q (KP-41T25)	
Q320	8-729-422-27	TRANSISTOR 2SD601A-Q (KP-41T25)	
Q321	8-729-422-27	TRANSISTOR 2SD601A-Q (KP-41T25)	
Q322	8-729-422-27	TRANSISTOR 2SD601A-Q	
		<RESISTOR>	
R001	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R002	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R003	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R004	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R005	1-216-033-00	METAL GLAZE 220 5% 1/10W	

REF. NO	PART NO	DESCRIPTION		REMARK
R006	1-216-033-00	METAL GLAZE 220	5%	1/10W
R007	1-216-033-00	METAL GLAZE 220	5%	1/10W
R008	1-216-033-00	METAL GLAZE 220	5%	1/10W
R009	1-216-033-00	METAL GLAZE 220	5%	1/10W
R010	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R011	1-216-033-00	METAL GLAZE 220	5%	1/10W
R012	1-216-033-00	METAL GLAZE 220	5%	1/10W
R013	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R014	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R015	1-216-033-00	METAL GLAZE 220	5%	1/10W
R016	1-216-033-00	METAL GLAZE 220	5%	1/10W (KP-41T25/46S25/53S25)
R017	1-216-073-00	METAL GLAZE 10K	5%	1/10W (KP-41T25/46S25/53S25)
R018	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R019	1-216-033-00	METAL GLAZE 220	5%	1/10W
R020	1-216-033-00	METAL GLAZE 220	5%	1/10W
R021	1-216-033-00	METAL GLAZE 220	5%	1/10W
R022	1-216-097-91	METAL GLAZE 100K	5%	1/10W
R023	1-216-121-91	METAL GLAZE 1M	5%	1/10W
R024	1-216-065-00	METAL GLAZE 4 7K	5%	1/10W
R025	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R026	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R027	1-216-089-91	METAL GLAZE 47K	5%	1/10W
R028	1-216-065-00	METAL GLAZE 4 7K	5%	1/10W
R029	1-216-065-00	METAL GLAZE 4 7K	5%	1/10W
R031	1-216-065-00	METAL GLAZE 4 7K	5%	1/10W
R032	1-216-065-00	METAL GLAZE 4 7K	5%	1/10W
R033	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W
R034	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R035	1-216-033-00	METAL GLAZE 220	5%	1/10W
R036	1-216-025-91	METAL GLAZE 100	5%	1/10W
R037	1-216-033-00	METAL GLAZE 220	5%	1/10W
R038	1-216-033-00	METAL GLAZE 220	5%	1/10W
R039	1-216-025-91	METAL GLAZE 100	5%	1/10W
R040	1-216-033-00	METAL GLAZE 220	5%	1/10W
R041	1-216-033-00	METAL GLAZE 220	5%	1/10W
R042	1-216-033-00	METAL GLAZE 220	5%	1/10W
R043	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R044	1-216-089-91	METAL GLAZE 47K	5%	1/10W
R045	1-216-033-00	METAL GLAZE 220	5%	1/10W
R046	1-216-033-00	METAL GLAZE 220	5%	1/10W
R047	1-216-033-00	METAL GLAZE 220	5%	1/10W
R048	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R049	1-216-033-00	METAL GLAZE 220	5%	1/10W
R050	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R051	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R052	1-216-065-00	METAL GLAZE 4 7K	5%	1/10W
R054	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R055	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R056	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R057	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W
R058	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R059	1-216-295-91	CONDUCTOR, CHIP		
R060	1-216-065-00	METAL GLAZE 4 7K	5%	1/10W
R061	1-216-033-00	METAL GLAZE 220	5%	1/10W (KP-41T25/46S25/53S25)
R062	1-216-085-00	METAL GLAZE 33K	5%	1/10W
R063	1-216-041-00	METAL GLAZE 470	5%	1/10W
R064	1-216-065-00	METAL GLAZE 4 7K	5%	1/10W
R065	1-216-097-91	METAL GLAZE 100K	5%	1/10W
R066	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R067	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R068	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R069	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R071	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R072	1-216-041-00	METAL GLAZE 470	5%	1/10W
R073	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R074	1-216-049-91	METAL GLAZE 1K	5%	1/10W

REF NO	PART NO	DESCRIPTION		REMARK
R075	1-216-069-00	METAL GLAZE 6 8K	5%	1/10W
R076	1-216-089-91	METAL GLAZE 47K	5%	1/10W
R077	1-216-097-91	METAL GLAZE 100K	5%	1/10W
R078	1-216-097-91	METAL GLAZE 100K	5%	1/10W
R079	1-216-081-00	METAL GLAZE 22K	5%	1/10W
R080	1-216-023-00	METAL GLAZE 82	5%	1/10W
R081	1-216-041-00	METAL GLAZE 470	5%	1/10W
R082	1-216-093-00	METAL GLAZE 68K	5%	1/10W
R083	1-216-065-00	METAL GLAZE 4 7K	5%	1/10W
R084	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R085	1-216-089-91	METAL GLAZE 47K	5%	1/10W
R086	1-216-097-91	METAL GLAZE 100K	5%	1/10W
R087	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R088	1-216-089-91	METAL GLAZE 47K	5%	1/10W
R089	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W
R090	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R091	1-216-081-00	METAL GLAZE 22K	5%	1/10W (KP-41T25/46S25/53S25)
R092	1-216-081-00	METAL GLAZE 22K	5%	1/10W (KP-41T25/46S25/53S25)
R093	1-216-295-91	CONDUCTOR, CHIP (KP-41T25/46S25/53S25)		
R094	1-216-081-00	METAL GLAZE 22K	5%	1/10W (KP-41T25/46S25/53S25)
R095	1-216-081-00	METAL GLAZE 22K	5%	1/10W (KP-41T25/46S25/53S25)
R096	1-216-081-00	METAL GLAZE 22K	5%	1/10W (KP-41T25/46S25/53S25)
R097	1-216-081-00	METAL GLAZE 22K	5%	1/10W (KP-41T25/46S25/53S25)
R098	1-216-081-00	METAL GLAZE 22K	5%	1/10W (KP-41T25/46S25/53S25)
R099	1-216-081-00	METAL GLAZE 22K	5%	1/10W (KP-41T25/46S25/53S25)
R100	1-216-295-91	CONDUCTOR, CHIP (KP-41T25/46S25/53S25)		
R101	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W
R102	1-216-089-91	METAL GLAZE 47K	5%	1/10W
R103	1-216-045-00	METAL GLAZE 680	5%	1/10W
R104	1-216-033-00	METAL GLAZE 220	5%	1/10W
R106	1-216-033-00	METAL GLAZE 220	5%	1/10W
R107	1-216-033-00	METAL GLAZE 220	5%	1/10W
R108	1-216-033-00	METAL GLAZE 220	5%	1/10W
R109	1-216-033-00	METAL GLAZE 220	5%	1/10W
R110	1-216-033-00	METAL GLAZE 220	5%	1/10W
R111	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R112	1-216-089-91	METAL GLAZE 47K	5%	1/10W
R113	1-216-089-91	METAL GLAZE 47K	5%	1/10W
R114	1-216-065-00	METAL GLAZE 4 7K	5%	1/10W
R115	1-216-065-00	METAL GLAZE 4 7K	5%	1/10W
R116	1-216-065-00	METAL GLAZE 4 7K	5%	1/10W
R117	1-216-047-91	METAL GLAZE 820	5%	1/10W
R118	1-216-047-91	METAL GLAZE 820	5%	1/10W
R119	1-216-047-91	METAL GLAZE 820	5%	1/10W
R120	1-216-033-00	METAL GLAZE 220	5%	1/10W
R300	1-216-025-91	METAL GLAZE 100	5%	1/10W
R301	1-216-059-00	METAL GLAZE 2 7K	5%	1/10W
R302	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R303	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R304	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R305	1-216-025-91	METAL GLAZE 100	5%	1/10W
R306	1-216-025-91	METAL GLAZE 100	5%	1/10W
R307	1-216-057-00	METAL GLAZE 2 2K	5%	1/10W
R308	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R309	1-216-025-91	METAL GLAZE 100	5%	1/10W
R310	1-216-081-00	METAL GLAZE 22K	5%	1/10W
R311	1-216-025-91	METAL GLAZE 100	5%	1/10W
R312	1-216-033-00	METAL GLAZE 220	5%	1/10W
R313	1-216-081-00	METAL GLAZE 22K	5%	1/10W
R314	1-216-033-00	METAL GLAZE 220	5%	1/10W
R315	1-216-067-00	METAL GLAZE 5 6K	5%	1/10W
R317	1-216-033-00	METAL GLAZE 220	5%	1/10W

M **G**

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REF NO.	PART NO	DESCRIPTION		REMARK
R318	1-216-071-00	METAL GLAZE 8 2K	5%	1/10W
R319	1-216-190-00	METAL GLAZE 470	5%	1/8W
R320	1-216-065-00	METAL GLAZE 4 7K	5%	1/10W
R321	1-216-190-00	METAL GLAZE 470	5%	1/8W
R323	1-216-295-91	CONDUCTOR, CHIP		
R324	1-216-025-91	METAL GLAZE 100	5%	1/10W
R325	1-216-043-91	METAL GLAZE 560	5%	1/10W
R326	1-216-077-00	METAL GLAZE 15K	5%	1/10W
R327	1-216-033-00	METAL GLAZE 220	5%	1/10W
R328	1-216-025-91	METAL GLAZE 100	5%	1/10W
R329	1-216-085-00	METAL GLAZE 33K	5%	1/10W
R330	1-216-039-00	METAL GLAZE 390	5%	1/10W
R331	1-216-059-00	METAL GLAZE 2 7K	5%	1/10W
R332	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R333	1-208-810-11	METAL CHIP 15K	0 50%	1/10W
R335	1-216-033-00	METAL GLAZE 220	5%	1/10W
R336	1-216-033-00	METAL GLAZE 220	5%	1/10W
R337	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R338	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R339	1-216-655-11	METAL CHIP 1 5K	0 50%	1/10W
R340	1-216-033-00	METAL GLAZE 220	5%	1/10W
R341	1-216-033-00	METAL GLAZE 220	5%	1/10W
R342	1-216-033-00	METAL GLAZE 220	5%	1/10W
R343	1-216-077-00	METAL GLAZE 15K	5%	1/10W
R344	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R345	1-216-025-91	METAL GLAZE 100	5%	1/10W
R346	1-216-037-00	METAL GLAZE 330	5%	1/10W
R347	1-216-041-00	METAL GLAZE 470	5%	1/10W
R348	1-216-049-91	METAL GLAZE 1K	5%	1/10W (KP-41T25)
R349	1-216-033-00	METAL GLAZE 220	5%	1/10W
R350	1-216-033-00	METAL GLAZE 220	5%	1/10W
R351	1-216-033-00	METAL GLAZE 220	5%	1/10W
R352	1-216-057-00	METAL GLAZE 2 2K	5%	1/10W (KP-41T25)
R353	1-216-069-00	METAL GLAZE 6 8K	5%	1/10W (KP-41T25)
R354	1-216-053-00	METAL GLAZE 1 5K	5%	1/10W
R355	1-216-071-00	METAL GLAZE 8 2K	5%	1/10W
R356	1-216-031-00	METAL GLAZE 180	5%	1/10W (KP-41T25)
R357	1-216-031-00	METAL GLAZE 180	5%	1/10W (KP-41T25)
R358	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R359	1-216-037-00	METAL GLAZE 330	5%	1/10W (KP-41T25)
R360	1-216-035-00	METAL GLAZE 270	5%	1/10W
R361	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R362	1-216-035-00	METAL GLAZE 270	5%	1/10W (KP-41T25)
R363	1-216-049-91	METAL GLAZE 1K	5%	1/10W (KP-41T25)
R364	1-216-025-91	METAL GLAZE 100	5%	1/10W (KP-41T25)
R366	1-216-053-00	METAL GLAZE 1 5K	5%	1/10W (KP-41T25)
R367	1-216-057-00	METAL GLAZE 2 2K	5%	1/10W (KP-41T25)
R368	1-216-025-91	METAL GLAZE 100	5%	1/10W (KP-41T25)
R369	1-216-061-00	METAL GLAZE 3 3K	5%	1/10W (KP-41T25)
R370	1-216-033-00	METAL GLAZE 220	5%	1/10W
R371	1-216-049-91	METAL GLAZE 1K	5%	1/10W (KP-41T25)
R372	1-216-051-00	METAL GLAZE 1 2K	5%	1/10W (KP-41T25)
R373	1-216-035-00	METAL GLAZE 270	5%	1/10W (KP-41T25)
R374	1-216-085-00	METAL GLAZE 33K	5%	1/10W (KP-41T25)
R375	1-216-075-00	METAL GLAZE 12K	5%	1/10W (KP-41T25)
R376	1-216-093-00	METAL GLAZE 68K	5%	1/10W (KP-41T25)
R377	1-216-043-91	METAL GLAZE 560	5%	1/10W (KP-41T25)
R378	1-216-059-00	METAL GLAZE 2 7K	5%	1/10W (KP-41T25)
R379	1-216-083-00	METAL GLAZE 27K	5%	1/10W (KP-41T25)
R380	1-216-097-91	METAL GLAZE 100K	5%	1/10W (KP-41T25)
R381	1-216-071-00	METAL GLAZE 8 2K	5%	1/10W (KP-41T25)
R382	1-216-085-00	METAL GLAZE 33K	5%	1/10W (KP-41T25)
R383	1-216-043-91	METAL GLAZE 560	5%	1/10W (KP-41T25)
R384	1-216-053-00	METAL GLAZE 1 5K	5%	1/10W (KP-41T25)
R385	1-216-085-00	METAL GLAZE 33K	5%	1/10W (KP-41T25)
R386	1-216-121-91	METAL GLAZE 1M	5%	1/10W (KP-41T25)
R387	1-216-049-91	METAL GLAZE 1K	5%	1/10W (KP-41T25)
R388	1-216-025-91	METAL GLAZE 100	5%	1/10W (KP-41T25)
R389	1-216-033-00	METAL GLAZE 220	5%	1/10W (KP-41T25)
R390	1-216-033-00	METAL GLAZE 220	5%	1/10W
R391	1-216-061-00	METAL GLAZE 3 3K	5%	1/10W
R392	1-216-059-00	METAL GLAZE 2 7K	5%	1/10W
R393	1-216-049-91	METAL GLAZE 1K	5%	1/10W (KP-41T25)
R394	1-216-295-91	CONDUCTOR, CHIP		

<CRYSTAL>

X001	1-579-917-11	VIBRATOR, CRYSTAL
X301	1-577-611-11	OSCILALTOR, CERAMIC
X302	1-567-505-11	OSCILLATOR, CRYSTAL

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* A-1316-212-A G BOARD, COMPLETE
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* 4-047-936-01 PLATE, SHIELD, PIT

<CAPACITOR>

C601	⚠ 1-136-311-51	FILM	0.47MF	20%	125V
C602	⚠ 1-113-920-91	ELECT	0.0022MF	20%	250V
C603	⚠ 1-113-920-91	ELECT	0.0022MF	20%	250V
C604	⚠ 1-125-692-11	ELECT(BLOCK)	820MF	20%	200V
C605	⚠ 1-125-692-11	ELECT(BLOCK)	820MF	20%	200V
C608	1-164-645-11	CERAMIC	1000PF	10%	500V
C609	1-164-645-11	CERAMIC	1000PF	10%	500V
C610	1-136-173-00	FILM	0 47MF	5%	50V
C611	1-136-171-00	FILM	0 33MF	5%	50V
C612	1-136-173-00	FILM	0 47MF	5%	50V
C613	1-136-171-00	FILM	0 33MF	5%	50V
C614	1-164-735-11	CAPACITOR	0 0015MF	10%	500V
C615	1-129-720-00	FILM	0.033MF	5%	630V
C616	⚠ 1-136-311-51	FILM	0.47MF	20%	125V
C618	⚠ 1-113-910-91	ELECT	470PF	10%	250V
C619	⚠ 1-113-910-91	ELECT	470PF	10%	250V
C651	1-128-548-11	ELECT	4700MF	20%	25V
C652	1-128-548-11	ELECT	4700MF	20%	25V
C653	1-162-318-11	CERAMIC	0 001MF	10%	500V

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REF. NO.	PART NO	DESCRIPTION			REMARK
C656	1-128-548-11	ELECT	4700MF	20%	25V
C657	1-126-926-11	ELECT	1000MF	20%	10V
C658	1-126-768-11	ELECT	2200MF	20%	16V
C659	1-126-944-11	ELECT	3300MF	20%	25V
C660	1-164-644-11	CERAMIC	330PF	10%	500V
C661	1-123-024-21	ELECT	33MF		160V
C662	1-107-636-11	ELECT	10MF	20%	160V
C663	1-126-948-11	ELECT	100MF	20%	35V
C664	1-126-235-11	ELECT	100MF	20%	6 3V
C665	1-126-964-11	ELECT	10MF	20%	50V
C667	1-126-951-11	ELECT	470MF	20%	35V
C668	1-104-664-11	ELECT	47MF	20%	25V
C669	1-162-318-11	CERAMIC	0 001MF	10%	500V
C670	1-104-664-11	ELECT	47MF	20%	25V
C671	1-104-664-11	ELECT	47MF	20%	25V
C672	1-104-665-11	ELECT	100MF	20%	25V
C673	1-104-664-11	ELECT	47MF	20%	25V
C674	1-104-664-11	ELECT	47MF	20%	25V
C675	1-104-664-11	ELECT	47MF	20%	25V
C676	1-104-664-11	ELECT	47MF	20%	25V
C677	1-125-473-11	ELECT(BLOCK)	1000MF	20%	160V
C678	1-107-635-11	ELECT	4 7MF	20%	160V
C679	1-164-644-11	CERAMIC	330PF	10%	500V
C680	1-124-903-11	ELECT	1MF	20%	50V
C682	1-124-903-11	ELECT	1MF	20%	50V
C683	1-107-635-11	ELECT	4 7MF	20%	160V
C690	1-126-934-11	ELECT	220MF	20%	16V
C691	1-126-964-11	ELECT	10MF	20%	50V

<CONNECTOR>

CN606	1-695-915-11	TAB (CONTACT)
CN615	1-695-915-11	TAB (CONTACT)
CN616	* 1-564-507-11	PLUG, CONNECTOR 4P
CN617	* 1-580-843-11	PIN, CONNECTOR (POWER)
CN624	* 1-564-507-11	PLUG, CONNECTOR 4P
CN625	* 1-564-513-11	PLUG, CONNECTOR 10P
CN626	* 1-564-506-11	PLUG, CONNECTOR 3P
CN653	* 1-564-507-11	PLUG, CONNECTOR 4P
CN681	* 1-573-986-11	PIN, CONNECTOR (PC BOARD) 5P

<DIODE>

D601	⚠ 8-719-052-29	DIODE LN4SB60-F
D604	8-719-991-33	DIODE 1SS133T-77
D605	8-719-991-33	DIODE 1SS133T-77
D606	8-719-991-33	DIODE 1SS133T-77
D607	8-719-991-33	DIODE 1SS133T-77
D608	8-719-991-33	DIODE 1SS133T-77
D609	8-719-991-33	DIODE 1SS133T-77
D610	8-719-991-33	DIODE 1SS133T-77
D611	8-719-991-33	DIODE 1SS133T-77
D651	8-719-052-91	DIODE D4SBS4-F
D655	8-719-052-92	DIODE D10SBS4F
D656	8-719-022-97	DIODE D2S4MF
D657	8-719-022-97	DIODE D2S4MF
D658	8-719-022-97	DIODE D2S4MF
D659	8-719-022-97	DIODE D2S4MF
D660	8-719-052-86	DIODE D2L40-TA
D661	8-719-052-86	DIODE D2L40-TA
D662	8-719-052-31	DIODE D1NL40-TR2
D663	8-719-052-31	DIODE D1NL40-TR2
D664	8-719-510-26	DIODE D1NL20-TA
D665	8-719-991-33	DIODE 1SS133T-77
D666	8-719-110-58	DIODE RD22ESB3
D667	8-719-921-80	DIODE MTZJ-11B
D669	8-719-991-33	DIODE 1SS133T-77
D670	8-719-110-41	DIODE RD15ESB2

REF NO	PART NO	DESCRIPTION	REMARK
D671	8-719-991-33	DIODE 1SS133T-77	
D672	8-719-109-54	DIODE RD2 2ESB2	
D673	8-719-110-49	DIODE RD18ESB2	
D674	8-719-991-33	DIODE 1SS133T-77	
D675	8-719-109-85	DIODE RD5 1ESB2	
D676	8-719-991-33	DIODE 1SS133T-77	
D677	8-719-991-33	DIODE 1SS133T-77	
D678	8-719-991-33	DIODE 1SS133T-77	
D679	8-719-991-33	DIODE 1SS133T-77	
D680	8-719-200-82	DIODE 11ES2	
D681	8-719-200-82	DIODE 11ES2	
D682	8-719-200-82	DIODE 11ES2	
D683	8-719-200-82	DIODE 11ES2	
D685	8-719-991-33	DIODE 1SS133T-77	
D686	8-719-991-33	DIODE 1SS133T-77	
D687	8-719-109-85	DIODE RD5 1ESB2	
D688	8-719-991-33	DIODE 1SS133T-77	
D689	8-719-991-33	DIODE 1SS133T-77	
D690	8-719-109-89	DIODE RD5 6ESB2	
D691	8-719-991-33	DIODE 1SS133T-77	
D693	8-719-991-33	DIODE 1SS133T-77	

<FUSE>

F601	⚠ 1-576-193-11	FUSE 6.3A/125V	
	1-533-223-11	CLIP, FUSE ; F601	

<FERRITE BEAD>

FB651	1-410-396-41	FERRITE BEAD INDUCTOR 0 45UH
FB652	1-410-396-41	FERRITE BEAD INDUCTOR 0 45UH

<IC>

IC651	⚠ 1-810-051-21	POWER MODULE (DM-48)
IC652	8-759-279-76	IC MCT7812CT

<COIL>

L651	1-403-588-11	CIL, CHOKE 22UH
L652	1-403-588-11	CIL, CHOKE 22UH
L653	1-412-519-11	INDUCTOR 3 3UH
L654	1-403-588-11	CIL, CHOKE 22UH
L655	1-403-588-11	CIL, CHOKE 22UH
L656	1-412-519-11	INDUCTOR 3 3UH
L657	1-403-588-11	CIL, CHOKE 22UH
L658	1-403-588-11	CIL, CHOKE 22UH

<TRANSISTOR>

Q601	8-729-019-49	TRANSISTOR 2SC4834M
Q602	8-729-019-49	TRANSISTOR 2SC4834M
Q651	8-729-820-82	TRANSISTOR 2SA1208-S
Q652	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q653	8-729-230-45	TRANSISTOR 2SC2458-YGR
Q654	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q655	8-729-230-45	TRANSISTOR 2SC2458-YGR
Q656	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q657	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q658	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q659	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q660	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q661	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q662	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q663	8-729-119-76	TRANSISTOR 2SA1175-HFE

<RESISTOR>

R602	⚠ 1-219-236-91	SOLID	2.2M	20%	1/2W

G **CR**

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REF. NO.	PART NO	DESCRIPTION			REMARK
R603	⚠ 1-205-997-11	WIREWOUND	2.2	5%	10W
R604	⚠ 1-247-891-91	CARBON	330K	5%	1/4W
R605	⚠ 1-247-891-91	CARBON	330K	5%	1/4W
R606	⚠ 1-202-933-61	FUSIBLE	0.1	10%	1/2W F
R607	1-247-891-00	CARBON	330K	5%	1/4W
R608	1-247-891-00	CARBON	330K	5%	1/4W
R609	1-216-369-00	METAL OXIDE	1	5%	2W F
R610	1-247-891-00	CARBON	330K	5%	1/4W
R611	1-247-891-00	CARBON	330K	5%	1/4W
R612	1-216-369-00	METAL OXIDE	1	5%	2W F
R613	1-247-791-91	CARBON	22	5%	1/4W
R614	1-247-791-91	CARBON	22	5%	1/4W
R615	1-247-791-91	CARBON	22	5%	1/4W
R616	1-247-791-91	CARBON	22	5%	1/4W
R631	1-247-863-91	CARBON	22K	5%	1/4W
R632	1-247-807-31	CARBON	100	5%	1/4W
R633	1-247-807-31	CARBON	100	5%	1/4W
R634	1-249-417-11	CARBON	1K	5%	1/4W
R635	1-249-425-11	CARBON	4 7K	5%	1/4W
R636	1-249-413-11	CARBON	470	5%	1/4W
R651	1-216-370-11	METAL OXIDE	1 2	5%	2W F
R653	1-249-418-11	CARBON	1 2K	5%	1/4W F
R654	1-215-473-00	METAL	150K	1%	1/4W
R655	1-249-441-11	CARBON	100K	5%	1/4W
R656	1-216-369-00	METAL OXIDE	1	5%	2W F
R657	1-249-429-11	CARBON	10K	5%	1/4W
R658	1-247-883-00	CARBON	150K	5%	1/4W
R659	1-249-417-11	CARBON	1K	5%	1/4W F
R660	1-249-417-11	CARBON	1K	5%	1/4W
R661	1-215-471-00	METAL	120K	1%	1/4W
R662	⚠ 1-215-452-91	METAL	20K	1%	1/4W
R663	1-215-421-00	METAL	1K	1%	1/4W
R664	1-249-429-11	CARBON	10K	5%	1/4W
R665	1-249-425-11	CARBON	4 7K	5%	1/4W
R666	1-249-429-11	CARBON	10K	5%	1/4W
R667	1-249-429-11	CARBON	10K	5%	1/4W
R668	1-215-487-00	METAL	560K	1%	1/4W
R670	1-247-895-91	CARBON	470K	5%	1/4W
R671	1-249-429-11	CARBON	10K	5%	1/4W
R672	1-247-807-31	CARBON	100	5%	1/4W
R673	1-249-423-11	CARBON	3 3K	5%	1/4W
R674	1-249-413-11	CARBON	470	5%	1/4W
R675	1-249-429-11	CARBON	10K	5%	1/4W
R676	1-249-421-11	CARBON	2 2K	5%	1/4W
R677	1-249-417-11	CARBON	1K	5%	1/4W
R678	1-249-423-11	CARBON	3.3K	5%	1/4W
R679	1-249-423-11	CARBON	3 3K	5%	1/4W
R680	1-249-413-11	CARBON	470	5%	1/4W
R681	1-249-425-11	CARBON	4 7K	5%	1/4W
R682	1-249-403-11	CARBON	68	5%	1/4W
R683	1-249-417-11	CARBON	1K	5%	1/4W
R684	1-249-417-11	CARBON	1K	5%	1/4W
R685	1-247-863-91	CARBON	22K	5%	1/4W
R686	1-249-429-11	CARBON	10K	5%	1/4W
R687	1-249-423-11	CARBON	3 3K	5%	1/4W
R688	1-249-423-11	CARBON	3 3K	5%	1/4W
R689	1-249-429-11	CARBON	10K	5%	1/4W
R690	1-247-863-91	CARBON	22K	5%	1/4W
R691	1-249-417-11	CARBON	1K	5%	1/4W
R693	1-249-425-11	CARBON	4 7K	5%	1/4W
R694	1-249-425-11	CARBON	4 7K	5%	1/4W
R695	1-249-429-11	CARBON	10K	5%	1/4W
R697	1-249-413-11	CARBON	470	5%	1/4W
R698	1-249-429-11	CARBON	10K	5%	1/4W
R699	1-249-417-11	CARBON	1K	5%	1/4W

REF NO	PART NO	DESCRIPTION			REMARK
		<RELAY>			
RY601	⚠ 1-755-032-11	RELAY			
RY602	⚠ 1-755-032-11	RELAY			
		<TRANSFORMER>			
T601	⚠ 1-427-850-11	TRANSFORMER, LINE FILTER			
T602	⚠ 1-427-863-11	TRANSFORMER, CONVERTER (PIT)			
T603	⚠ 1-427-865-11	TRANSFORMER, POWER			
T604	⚠ 1-427-864-12	TRANSFORMER, CONVERTER (PRT)			
T605	⚠ 1-427-850-11	TRANSFORMER, LINE FILTER			

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* A-1331-498-A CR BOARD, COMPLETE
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<CAPACITOR>

C701	1-104-664-11	ELECT	47MF	20%	25V
C702	1-107-662-11	ELECT	22MF	20%	250V
C703	1-161-754-00	CERAMIC	0 001MF	10%	2KV
C704	1-126-768-11	ELECT	2200MF	20%	16V
C705	1-102-050-00	CERAMIC	0 01MF		500V
C706	1-102-953-00	CERAMIC	18PF	5%	50V
C707	1-102-129-00	CERAMIC	0 01MF	10%	50V
C708	1-104-664-11	ELECT	47MF	20%	25V
C709	1-107-651-11	ELECT	4 7MF	20%	250V
C710	1-102-157-00	CERAMIC	560PF	10%	500V
C714	1-162-115-00	CERAMIC	330PF	10%	2KV
C715	1-101-005-00	CERAMIC	0 022MF		50V
C716	1-102-050-00	CERAMIC	0 01MF		500V

<CONNECTOR>

CN701	* 1-508-784-00	PIN, CONNECTOR (5mm PITCH) 1P
CN702	* 1-564-510-11	PLUG, CONNECTOR 7P
CN703	* 1-564-512-11	PLUG, CONNECTOR 9P
CN704	* 1-564-512-11	PLUG, CONNECTOR 9P
CN705	* 1-564-511-11	PLUG, CONNECTOR 8P
CN706	1-695-915-11	TAB (CONTACT)
CN708	⚠ 1-251-179-11	SOCKET, PICTURE TUBE
CN709	* 1-564-506-11	PLUG, CONNECTOR 3P

<DIODE>

D701	8-719-991-33	DIODE 1SS133T-77
D702	8-719-991-33	DIODE 1SS133T-77
D703	8-719-991-33	DIODE 1SS133T-77
D704	8-719-921-86	DIODE MTZJ-13
D705	8-719-210-21	DIODE 11EQS04
D706	8-719-991-33	DIODE 1SS133T-77
D707	8-719-921-86	DIODE MTZJ-13
D708	8-719-901-83	DIODE 1SS83
D710	8-719-109-89	DIODE RD5 6ESB2
D711	8-719-991-33	DIODE 1SS133T-77
D713	8-719-510-48	DIODE D1N20R
D716	8-719-921-86	DIODE MTZJ-13
D717	8-719-921-86	DIODE MTZJ-13

<IC>

IC701	8-759-346-42	IC TDA6101Q/N3

<COIL>

L701	1-408-429-00	INDUCTOR 470UH

The componants identified by shading and mark ⚠ are critical for safety
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie

CR **CG** **CB**

REF NO.	PART NO	DESCRIPTION			REMARK
		<NEON LAMP>			
NL701	1-519-108-99	LAMP, NEON			
		<TRANSISTOR>			
Q701	8-729-119-76	TRANSISTOR 2SA1175-HFE			
		<RESISTOR>			
R701	1-215-411-00	METAL	390	1%	1/4W
R702	1-215-414-00	METAL	510	1%	1/4W
R704	1-202-847-00	SOLID	560K	20%	1/2W
R706	1-249-407-11	CARBON	150	5%	1/4W
R707	1-215-423-00	METAL	1 2K	1%	1/4W
R708	1-202-883-11	SOLID	680K	20%	1/2W
R709	1-215-437-00	METAL	4 7K	1%	1/4W
R710	1-215-427-00	METAL	1 8K	1%	1/4W
R711	1-215-427-00	METAL	1 8K	1%	1/4W
R712	1-215-903-11	METAL OXIDE	68K	5%	2W F
R713	1-202-818-00	SOLID	1K	20%	1/2W
R714	1-202-818-00	SOLID	1K	20%	1/2W
R715	1-249-436-11	CARBON	39K	5%	1/4W
R716	1-249-437-11	CARBON	47K	5%	1/4W
R718	1-249-417-11	CARBON	1K	5%	1/4W
R719	1-247-807-31	CARBON	100	5%	1/4W
R720	1-249-437-11	CARBON	47K	5%	1/4W
R721	1-202-549-00	SOLID	100	20%	1/2W
R722	1-202-549-00	SOLID	100	20%	1/2W
		<SPARK GAP>			
SG701	1-519-422-11	GAP, SPARK			
SG702	1-519-422-11	GAP, SPARK			
SG703	1-519-422-11	GAP, SPARK			

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* A-1331-499-A CG BOARD, COMPLETE
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		<CAPACITOR>			
C731	1-161-754-00	CERAMIC	0 001MF	10%	2KV
C732	1-107-662-11	ELECT	22MF	20%	250V
C733	1-102-050-00	CERAMIC	0 01MF		500V
C736	1-126-964-11	ELECT	10MF	20%	50V
C738	1-107-651-11	ELECT	4 7MF	20%	250V
C739	1-102-965-00	CERAMIC	39PF	5%	50V
C740	1-126-964-11	ELECT	10MF	20%	50V
C741	1-102-157-00	CERAMIC	560PF	10%	500V
C742	1-162-115-00	CERAMIC	330PF	10%	2KV
C743	1-101-005-00	CERAMIC	0 022MF		50V
C744	1-102-050-00	CERAMIC	0 01MF		500V
		<CONNECTOR>			
CN731	* 1-508-784-00	PIN, CONNECTOR (5mm PITCH) 1P			
CN732	* 1-564-512-11	PLUG, CONNECTOR 9P			
CN733	* 1-564-512-11	PLUG, CONNECTOR 9P			
CN734	* 1-564-511-11	PLUG, CONNECTOR 8P			
CN735	* 1-564-509-11	PLUG, CONNECTOR 6P			
CN736	1-695-915-11	TAB (CONTACT)			
CN738	⚠ 1-251-179-11	SOCKET, PICTURE TUBE			
		<DIODE>			
D731	8-719-921-86	DIODE MTZJ-13			
D732	8-719-901-83	DIODE 1SS83			
D736	8-719-510-48	DIODE D1N20R			
D737	8-719-921-86	DIODE MTZJ-13			
		<IC>			
IC731	8-759-346-42	IC TDA6101Q/N3			
		<COIL>			
L731	1-408-429-00	INDUCTOR 470UH			
		<NEON LAMP>			
NL731	1-519-108-99	LAMP, NEON			
		<RESISTOR>			
R731	1-202-847-00	SOLID	560K	20%	1/2W
R733	1-202-883-11	SOLID	680K	20%	1/2W
R734	1-202-818-00	SOLID	1K	20%	1/2W
R735	1-249-407-11	CARBON	150	5%	1/4W
R736	1-249-441-11	CARBON	100K	5%	1/4W
R737	1-202-818-00	SOLID	1K	20%	1/2W
R738	1-202-549-00	SOLID	100	20%	1/2W
R739	1-215-420-00	METAL	910	1%	1/4W
R740	1-215-427-00	METAL	1 8K	1%	1/4W
R741	1-249-437-11	CARBON	47K	5%	1/4W
R742	1-215-903-11	METAL OXIDE	68K	5%	2W F
		<SPARK GAP>			
SG731	1-519-422-11	GAP, SPARK			
SG732	1-519-422-11	GAP, SPARK			
SG733	1-519-422-11	GAP, SPARK			

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* A-1331-500-A CB BOARD, COMPLETE
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		<CAPACITOR>			
C761	1-161-754-00	CERAMIC	0 001MF	10%	2KV
C762	1-107-662-11	ELECT	22MF	20%	250V
C763	1-102-050-00	CERAMIC	0.01MF		500V
C766	1-107-651-11	ELECT	4 7MF	20%	250V
C769	1-102-965-00	CERAMIC	39PF	5%	50V
C770	1-126-964-11	ELECT	10MF	20%	50V
C771	1-102-157-00	CERAMIC	560PF	10%	500V
C772	1-162-115-00	CERAMIC	330PF	10%	2KV
C773	1-101-005-00	CERAMIC	0 022MF		50V
C774	1-102-050-00	CERAMIC	0 01MF		500V
		<CONNECTOR>			
CN761	* 1-508-784-00	PIN, CONNECTOR (5mm PITCH) 1P			
CN762	* 1-564-512-11	PLUG, CONNECTOR 9P			
CN763	* 1-564-509-11	PLUG, CONNECTOR 6P			
CN766	1-695-915-11	TAB (CONTACT)			
CN768	⚠ 1-251-179-11	SOCKET, PICTURE TUBE			
		<DIODE>			
D761	8-719-921-86	DIODE MTZJ-13			

CB **E**

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite
Ne les remplacer que par une piece portant le numero specifie

The componants identified by shading and mark ⚠ are critical for safety
Replace only with part number specified

REF NO	PART NO	DESCRIPTION				REMARK
D762	8-719-901-83	DIODE 1SS83				
D763	8-719-991-33	DIODE 1SS133T-77				
D764	8-719-921-86	DIODE MTZJ-13				
D765	8-719-921-86	DIODE MTZJ-13				
D768	8-719-510-48	DIODE D1N20R				
D769	8-719-921-86	DIODE MTZJ-13				
		<IC>				
IC761	8-759-346-42	IC TDA6101Q/N3				
		<COIL>				
L761	1-408-429-00	INDUCTOR 470UH				
		<NEON LAMP>				
NL760	1-519-108-99	LAMP, NEON				
		<RESISTOR>				
R761	1-202-847-00	SOLID	560K	20%	1/2W	
R763	1-202-883-11	SOLID	680K	20%	1/2W	
R764	1-202-818-00	SOLID	1K	20%	1/2W	
R767	1-202-818-00	SOLID	1K	20%	1/2W	
R768	1-202-549-00	SOLID	100	20%	1/2W	
R769	1-215-421-00	METAL	1K	1%	1/4W	
R770	1-249-426-11	CARBON	5 6K	5%	1/4W	
R771	1-215-427-00	METAL	1 8K	1%	1/4W	
R773	1-215-903-11	METAL OXIDE	68K	5%	2W	F
R774	1-249-407-11	CARBON	150	5%	1/4W	
R775	1-202-549-00	SOLID	100	20%	1/2W	
		<SPARK GAP>				
SG761	1-519-422-11	GAP, SPARK				
SG762	1-519-422-11	GAP, SPARK				
SG763	1-519-422-11	GAP, SPARK				

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	* A-1341-885-A	E BOARD, COMPLETE				
		**********				
	4-382-854-11	SCREW (M3X10), P, SW (+)				
	7-322-065-19	RUBBER, SILICON RTV (KE490W)				
		<CAPACITOR>				
C801	1-110-626-11	ELECT	330MF	20%	160V	
C802	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C803	1-110-626-11	ELECT	330MF	20%	160V	
C805	1-136-173-00	FILM	0 47MF	5%	50V	
C806	1-102-030-00	CERAMIC	330PF	10%	500V	
C807	1-106-387-00	MYLAR	0 068MF	10%	200V	
C808	1-107-636-11	ELECT	10MF	20%	160V	
C809	1-104-664-11	ELECT	47MF	20%	25V	
C810	1-130-481-00	FILM	0 0068MF	5%	50V	
C811	1-137-475-11	FILM	2 2MF	10%	250V	
C812	1-126-965-11	ELECT	22MF	20%	50V	
C813	1-162-318-11	CERAMIC	0 001MF	10%	500V	
C814	1-126-968-11	ELECT	100MF	20%	50V	
C815	1-162-114-00	CERAMIC	0.0047MF		2KV	
C818	⚠ 1-109-833-11	FILM	0.0145MF	3%	2.5KV	
C819	1-130-489-00	FILM	0 033MF	5%	50V	
C820	1-124-902-00	ELECT	0 47MF	20%	50V	
C823	1-136-601-11	FILM	0 01MF	5%	630V	
C824	1-126-964-11	ELECT	10MF	20%	50V	
C825	1-162-318-11	CERAMIC	0 001MF	10%	500V	
C826	1-130-467-00	FILM	470PF	5%	50V	
C827	1-107-651-11	ELECT	4 7MF	20%	250V	
C828	1-111-036-11	ELECT	470MF	20%	16V	
C830	1-137-420-11	FILM	0 047MF	10%	100V	
C831	1-126-934-11	ELECT	220MF	20%	16V	
C832	1-126-967-11	ELECT	47MF	20%	50V	
C901	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C902	1-137-370-11	FILM	0 01MF	5%	50V	
C903	1-137-431-11	FILM	560PF	5%	50V	
C904	1-137-358-11	FILM	0 0001MF	5%	50V	
C905	1-104-665-11	ELECT	100MF	20%	25V	
C906	1-137-370-11	FILM	0 01MF	5%	50V	
C907	1-104-665-11	ELECT	100MF	20%	25V	
C908	1-137-361-11	FILM	330PF	5%	50V	
C909	1-124-903-11	ELECT	1MF	20%	50V	
C911	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C912	1-124-903-11	ELECT	1MF	20%	50V	
C913	1-124-903-11	ELECT	1MF	20%	50V	
C915	1-163-239-11	CERAMIC CHIP	33PF	5%	50V	
C916	1-126-963-11	ELECT	4 7MF	20%	50V	
C917	1-126-964-11	ELECT	10MF	20%	50V	
C918	1-137-364-11	FILM	0.001MF	5%	50V	
C919	1-126-964-11	ELECT	10MF	20%	50V	
C920	1-124-902-00	ELECT	0 47MF	20%	50V	
C921	1-126-964-11	ELECT	10MF	20%	50V	
C923	1-126-964-11	ELECT	10MF	20%	50V	
C924	1-126-935-11	ELECT	470MF	20%	16V	
C925	1-137-372-11	FILM	0 022MF	5%	50V	
C926	1-104-665-11	ELECT	100MF	20%	25V	
C927	1-137-364-11	FILM	0 001MF	5%	50V	
C929	1-137-416-11	FILM	0 01MF	10%	100V	
C930	1-137-364-11	FILM	0 001MF	5%	50V	
C931	1-126-967-11	ELECT	47MF	20%	50V	
C932	1-124-903-11	ELECT	1MF	20%	50V	
C934	1-137-370-11	FILM	0 01MF	5%	50V	
C935	1-137-399-11	FILM	0 1MF	10%	100V	
C936	1-126-964-11	ELECT	10MF	20%	50V	
C937	1-126-964-11	ELECT	10MF	20%	50V	
C938	1-126-935-11	ELECT	470MF	20%	16V	
C939	1-126-964-11	ELECT	10MF	20%	50V	
C940	1-104-664-11	ELECT	47MF	20%	25V	
C941	1-126-964-11	ELECT	10MF	20%	50V	
C942	1-104-664-11	ELECT	47MF	20%	25V	
C943	1-126-965-11	ELECT	22MF	20%	50V	
C944	1-126-964-11	ELECT	10MF	20%	50V	
C945	1-126-964-11	ELECT	10MF	20%	50V	
C946	1-124-925-11	ELECT	2 2MF	20%	50V	
C947	1-104-665-11	ELECT	100MF	20%	25V	
C948	1-104-665-11	ELECT	100MF	20%	25V	
C949	1-126-964-11	ELECT	10MF	20%	50V	
C950	1-126-964-11	ELECT	10MF	20%	50V	
C951	1-109-889-11	ELECT	1MF	20%	50V	
C955	1-126-964-11	ELECT	10MF	20%	50V	
C980	1-137-368-11	FILM	0 0047MF	5%	50V	
		<CHIP CONDUCTOR>				
CJ901	1-216-295-91	CONDUCTOR, CHIP				
CJ902	1-216-295-91	CONDUCTOR, CHIP				
CJ903	1-216-295-91	CONDUCTOR, CHIP				
CJ904	1-216-295-91	CONDUCTOR, CHIP				
		<CONNECTOR>				
CN802	* 1-564-510-11	PLUG, CONNECTOR 7P				
CN805	1-695-915-11	TAB (CONTACT)				
CN827	* 1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P				
CN851	* 1-564-509-11	PLUG, CONNECTOR 6P				

The componants identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite
Ne les remplacer que par une piece portant le numero specifie

- The components identified by ⋈ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

E

REF. NO	PART NO	DESCRIPTION	REMARK
CN881	* 1-573-986-11	PIN, CONNECTOR (PC BOARD) 5P	
CN882	* 1-691-135-11	PIN, CONNECTOR (PC BOARD) 4P	
CN884	* 1-573-964-11	PIN, CONNECTOR (PC BOARD) 6P	
CN885	* 1-506-371-00	PIN, CONNECTOR 2P	
CN886	* 1-506-371-00	PIN, CONNECTOR 2P	
CN904	* 1-564-507-11	PLUG, CONNECTOR 4P	
		<DIODE>	
D801	8-719-109-85	DIODE RD5 1ESB2	
D802	8-719-404-46	DIODE MA110	
D803	8-719-971-20	DIODE ERC38-06	
D804	8-719-908-03	DIODE GP08D	
D805	8-719-945-80	DIODE ERC06-15S	
D806	8-719-991-33	DIODE 1SS133T-77	
D807	8-719-945-80	DIODE ERC06-15S	
D808	8-719-500-71	DIODE D8LC40	
D809	8-719-991-33	DIODE 1SS133T-77	
D810	8-719-945-80	DIODE ERC06-15S	
D811	8-719-979-85	DIODE EGP20G-PKG23	
D812	8-719-404-46	DIODE MA110	
D814	8-719-920-67	DIODE ERC91-02	
D816	8-719-404-46	DIODE MA110	
D817	8-719-404-46	DIODE MA110	
D818	8-719-404-46	DIODE MA110	
D819	8-719-105-82	DIODE RD5.1M-B2	
D901	8-719-404-46	DIODE MA110	
D902	8-719-404-46	DIODE MA110	
D904	8-719-404-46	DIODE MA110	
D905	8-719-404-46	DIODE MA110	
D907	8-719-404-46	DIODE MA110	
D908	8-719-105-82	DIODE RD5 1M-B2	
D909	8-719-302-43	DIODE EL1Z	
D911	8-719-105-82	DIODE RD5 1M-B2	
D912	8-719-105-82	DIODE RD5 1M-B2	
D913	8-719-404-46	DIODE MA110	
D914	8-719-404-46	DIODE MA110	
D915	8-719-404-46	DIODE MA110	
D916	8-719-105-57	DIODE RD3 9M-B1	
D917	8-719-404-46	DIODE MA110	
D918	8-719-404-46	DIODE MA110	
D919	8-719-106-81	DIODE RD13M-B3	
D920	8-759-157-40	IC uPC574J	
D921	8-719-106-81	DIODE RD13M-B3	
D922	8-719-404-46	DIODE MA110	
D923	8-719-404-46	DIODE MA110	
D924	8-719-404-46	DIODE MA110	
D925	8-719-028-00	DIODE MA3033-L	
D926	8-719-404-46	DIODE MA110	
D927	8-719-401-32	DIODE MA3047M-TX	
		<FERRITE BEAD>	
FB001	1-410-396-41	FERRITE BEAD INDUCTOR 0 45UH	
		<IC>	
IC901	8-759-133-90	IC uPC339C	
IC902	8-759-133-90	IC uPC339C	
IC903	8-759-711-28	IC NJM2058D	
IC904	8-759-634-51	IC M5218AP	
IC905	8-759-929-65	IC LM7912CT	
IC906	8-759-279-76	IC MCT7812CT	
		<COIL>	
L801	1-406-665-11	COIL, CHOKE 100UH	
L802	1-406-665-11	COIL, CHOKE 100UH	
L803	1-422-613-11	COIL, AIR CORE	
L804	1-411-286-11	COIL, CHOKE 220UH	
L901	1-408-416-00	INDUCTOR 39UH	
L902	1-408-416-00	INDUCTOR 39UH	
		<NEON LAMP>	
NL802	1-519-108-99	LAMP, NEON	
		<TRANSISTOR>	
Q801	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q802	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q803	8-729-122-12	TRANSISTOR 2SA1221-L	
Q806	8-729-805-07	TRANSISTOR 2SD1887-CA	
Q807	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q808	8-729-024-30	TRANSISTOR IRFI640LF	
Q809	8-729-823-81	TRANSISTOR 2SC4632LS-CB7	
Q810	8-729-231-55	TRANSISTOR 2SC2878-AB	
Q811	8-729-823-81	TRANSISTOR 2SC4632LS-CB7	
Q813	8-729-216-22	TRANSISTOR 2SA1162-G	
Q901	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q902	8-729-140-93	TRANSISTOR 2SB733-34	
Q903	8-729-140-96	TRANSISTOR 2SD774-34	
Q904	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q905	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q906	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q907	8-729-231-55	TRANSISTOR 2SC2878-AB	
Q908	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q909	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q910	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q911	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q912	8-729-216-22	TRANSISTOR 2SA1162-G	
Q913	8-729-029-86	TRANSISTOR DTC124ESA	
Q914	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q915	8-729-422-27	TRANSISTOR 2SD601A-Q	
		<RESISTOR>	
R800	1-216-637-11	METAL CHIP 270 0.50% 1/10W	
R801	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R802	1-249-421-11	CARBON 2 2K 5% 1/4W	
R804	1-249-425-11	CARBON 4 7K 5% 1/4W	F
R805	1-216-435-11	METAL OXIDE 2 7K 5% 1W	F
R806	1-249-431-11	CARBON 15K 5% 1/4W	F
R807	1-260-325-11	CARBON 560 5% 1/2W	
⋈R808	⚠	CARBON 1/4W	
⋈R809	⚠	CARBON 1/4W	
R810	1-249-427-11	CARBON 6 8K 5% 1/4W	F
R811	1-216-097-91	METAL GLAZE 100K 5% 1/10W	
R812	1-216-395-00	METAL OXIDE 3 3 5% 3W	F
R813	1-216-484-00	METAL OXIDE 3 9K 5% 3W	F
R814	1-215-919-11	METAL OXIDE 2 2K 5% 3W	F
R816	1-216-051-00	METAL GLAZE 1 2K 5% 1/10W	
R817	1-216-395-00	METAL OXIDE 3 3 5% 3W	F
R818	1-249-405-11	CARBON 100 5% 1/4W	F
R819	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R820	1-215-905-11	METAL OXIDE 10 5% 3W	F
R821	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R822	1-215-928-11	METAL OXIDE 68K 5% 3W	F
R823	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R825	1-215-928-11	METAL OXIDE 68K 5% 3W	F
R826	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R830	1-215-928-11	METAL OXIDE 68K 5% 3W	F
R831	1-215-919-11	METAL OXIDE 2.2K 5% 3W	F
R832	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R836	1-202-818-00	SOLID 1K 20% 1/2W	
R837	1-215-870-11	METAL OXIDE 1.5K 5% 1W	F
R838	1-247-807-31	CARBON 100 5% 1/4W	

E **D**

• The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite Ne les remplacer que par une piece portant le numero specifie

The componants identified by shading and mark ⚠ are critical for safety Replace only with part number specified

REF NO	PART NO	DESCRIPTION			REMARK
R839	1-249-429-11	CARBON	10K	5%	1/4W F
R841	1-216-491-11	METAL OXIDE	56K	5%	3W F
R843	1-202-549-00	SOLID	100	20%	1/2W
R844	1-216-491-11	METAL OXIDE	56K	5%	3W F
R846	1-202-838-00	SOLID	100K	20%	1/2W
R847	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R849	1-247-863-91	CARBON	22K	5%	1/4W
R850	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R851	1-216-667-11	METAL CHIP	4 7K	0 50%	1/10W
R852	1-208-806-11	METAL CHIP	10K	0 50%	1/10W
R854	1-249-447-11	CARBON	1	5%	1/4W F
R855	1-208-822-11	METAL CHIP	47K	0 50%	1/10W
R856	1-208-822-11	METAL CHIP	47K	0.50%	1/10W
R857	1-216-699-11	METAL CHIP	100K	0 50%	1/10W
R858	1-208-810-11	METAL CHIP	15K	0 50%	1/10W
R865	1-216-350-11	METAL OXIDE	1 2	5%	1W F
R866	1-532-781-11	FUSE, MICRO (SECONDARY) 3 15A/125V			
R883	1-216-091-00	METAL GLAZE	56K	5%	1/10W
R888	1-216-067-00	METAL GLAZE	5 6K	5%	1/10W
R901	1-216-065-00	METAL GLAZE	4 7K	5%	1/10W
R902	1-216-065-00	METAL GLAZE	4 7K	5%	1/10W
R903	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R904	1-216-057-00	METAL GLAZE	2 2K	5%	1/10W
R905	1-247-739-11	CARBON	100	5%	1/2W F
R906	1-247-739-11	CARBON	100	5%	1/2W F
R907	1-216-091-00	METAL GLAZE	56K	5%	1/10W
R908	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R909	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R910	1-216-059-00	METAL GLAZE	2 7K	5%	1/10W
R911	1-216-059-00	METAL GLAZE	2 7K	5%	1/10W
R912	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R913	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R914	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R915	1-216-091-00	METAL GLAZE	56K	5%	1/10W
R916	1-216-065-00	METAL GLAZE	4 7K	5%	1/10W
R917	1-216-057-00	METAL GLAZE	2 2K	5%	1/10W
R918	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R919	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R920	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R921	1-216-059-00	METAL GLAZE	2 7K	5%	1/10W
R922	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R923	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R924	1-216-067-00	METAL GLAZE	5 6K	5%	1/10W
R926	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R927	1-249-377-11	CARBON	0 47	5%	1/4W F
R928	1-216-067-00	METAL GLAZE	5 6K	5%	1/10W
R929	1-216-041-00	METAL GLAZE	470	5%	1/10W
R930	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R931	1-216-059-00	METAL GLAZE	2 7K	5%	1/10W
R932	1-216-059-00	METAL GLAZE	2 7K	5%	1/10W
R933	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R934	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R935	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R936	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R937	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R938	1-208-810-11	METAL CHIP	15K	0 50%	1/10W
R939	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R940	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R941	1-216-091-00	METAL GLAZE	56K	5%	1/10W
R942	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R943	1-249-377-11	CARBON	0 47	5%	1/4W F
R944	1-216-689-11	METAL GLAZE	39K	5%	1/10W
R945	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R946	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R947	1-216-025-91	METAL GLAZE	100	5%	1/10W
R948	1-216-051-00	METAL GLAZE	1 2K	5%	1/10W
R950	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R952	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R954	1-214-777-00	METAL	100K	1%	1/4W
R955	1-214-769-00	METAL	47K	1%	1/4W
R956	1-208-806-11	METAL CHIP	10K	0 50%	1/10W
R957	1-218-754-11	METAL CHIP	120K	0 50%	1/10W
R958	1-218-756-11	METAL CHIP	150K	0 50%	1/10W
R959	1-214-757-00	METAL	15K	1%	1/4W
R960	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R962	1-208-806-11	METAL CHIP	10K	0 50%	1/10W
R963	1-214-749-00	METAL	6 8K	1%	1/4W
R964	1-214-757-00	METAL	15K	1%	1/4W
R965	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R966	1-214-757-00	METAL	15K	1%	1/4W
R967	1-216-025-91	METAL GLAZE	100	5%	1/10W
R968	1-214-751-00	METAL	8 2K	1%	1/4W
R969	1-214-731-00	METAL	1 2K	1%	1/4W
R970	1-214-757-00	METAL	15K	1%	1/4W
R971	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R972	1-216-699-11	METAL CHIP	100K	0 50%	1/10W
R973	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R974	1-216-699-11	METAL CHIP	100K	0 50%	1/10W
R975	1-216-043-91	METAL GLAZE	560	5%	1/10W
R976	1-216-041-00	METAL GLAZE	470	5%	1/10W
R977	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R978	1-216-057-00	METAL GLAZE	2 2K	5%	1/10W
R979	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R980	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R981	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R982	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W
⧓R983	⚠	METAL GLAZE			1/4W
R984	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R985	1-208-812-11	METAL CHIP	18K	0 50%	1/10W
R986	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R987	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
⧓R988	⚠	METAL GLAZE			1/4W
R989	1-216-462-00	METAL OXIDE	8 2K	5%	2W F
R990	1-215-897-11	METAL OXIDE	6 8K	5%	2W F
R991	1-208-801-11	METAL CHIP	6 2K	0 50%	1/10W
R992	1-249-431-11	CARBON	15K	5%	1/4W
R993	1-249-431-11	CARBON	15K	5%	1/4W
R994	1-247-807-31	CARBON	100	5%	1/4W
R995	1-216-677-11	METAL CHIP	12K	0 50%	1/10W
R996	1-208-814-11	METAL CHIP	22K	0 50%	1/10W
R997	1-216-065-00	METAL GLAZE	4 7K	5%	1/10W
R998	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R999	1-216-051-00	METAL GLAZE	1 2K	5%	1/10W

<SPARK GAP>

SG801	1-519-422-11	GAP, SPARK	

<TRANSFORMER>

T801	⚠ 1-453-189-11	TRANSFORMER ASSY, FLYBACK	(NX-2631//A4S)
T802	1-437-209-11	TRANSFORMER, HORIZONTAL DRIVE	
T803	⚠ 1-427-980-11	TRANSFORMER, FERRITE (LOT)	

****

* A-1346-296-A D BOARD, COMPLETE
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	4-382-854-11	SCREW (M3X10), P, SW (+)
	7-682-652-09	SCREW +PSW 3X16

<CAPACITOR>

C1502	1-126-943-11	ELECT	2200MF	20%	25V
C1503	1-164-232-11	CERAMIC CHIP	0 01MF	10%	50V

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REF. NO.	PART NO.	DESCRIPTION			REMARK
C1504	1-126-943-11	ELECT	2200MF	20%	25V
C1505	1-136-177-00	FILM	1MF	5%	50V
C1506	1-102-228-00	CERAMIC	470PF	10%	500V
C1507	1-164-232-11	CERAMIC CHIP	0 01MF	10%	50V
C1508	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1509	1-126-968-11	ELECT	100MF	20%	50V
C1510	1-137-401-11	FILM	0 22MF	10%	100V
C1511	1-137-423-11	FILM	0 15MF	10%	100V
C1512	1-137-423-11	FILM	0 15MF	10%	100V
C1513	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C1514	1-163-031-11	CERAMIC CHIP	0 01MF		50V
C1515	1-163-031-11	CERAMIC CHIP	0 01MF		50V
C1516	1-136-177-00	FILM	1MF	5%	50V
C1517	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C1551	1-126-964-11	ELECT	10MF	20%	50V
C1603	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1604	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1605	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1606	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1607	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1608	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1611	1-126-968-11	ELECT	100MF	20%	50V
C1612	1-104-665-11	ELECT	100MF	20%	25V
C1613	1-126-968-11	ELECT	100MF	20%	50V
C1615	1-104-665-11	ELECT	100MF	20%	25V
C1617	1-126-941-11	ELECT	470MF	20%	25V
C1619	1-104-665-11	ELECT	100MF	20%	25V
C1620	1-126-941-11	ELECT	470MF	20%	25V
C1622	1-104-665-11	ELECT	100MF	20%	25V
C1701	1-126-935-11	ELECT	470MF	20%	16V
C1702	1-163-809-11	CERAMIC CHIP	0 047MF	10%	25V
C1703	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C1704	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C1705	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C1709	1-163-031-11	CERAMIC CHIP	0 01MF		50V
C1723	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1724	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1801	1-124-903-11	ELECT	1MF	20%	50V
C1802	1-126-964-11	ELECT	10MF	20%	50V
C1803	1-163-809-11	CERAMIC CHIP	0 047MF	10%	25V
C1805	1-163-809-11	CERAMIC CHIP	0 047MF	10%	25V
C1806	1-163-127-00	CERAMIC CHIP	270PF	5%	50V
C1807	1-163-809-11	CERAMIC CHIP	0 047MF	10%	25V
C1808	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C1809	1-104-661-91	ELECT	330MF	20%	16V
C1810	1-104-661-91	ELECT	330MF	20%	16V
C1811	1-163-809-11	CERAMIC CHIP	0 047MF	10%	25V
C1812	1-163-809-11	CERAMIC CHIP	0 047MF	10%	25V
C1813	1-163-275-11	CERAMIC CHIP	0 001MF	5%	50V
C1814	1-163-809-11	CERAMIC CHIP	0 047MF	10%	25V
C1816	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1817	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1818	1-163-809-11	CERAMIC CHIP	0 047MF	10%	25V
C1819	1-126-933-11	ELECT	100MF	20%	16V
C1820	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C1821	1-124-902-00	ELECT	0 47MF	20%	50V
C1822	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C1823	1-124-903-11	ELECT	1MF	20%	50V
C1824	1-124-903-11	ELECT	1MF	20%	50V
C1825	1-126-967-11	ELECT	47MF	20%	50V
C1826	1-126-967-11	ELECT	47MF	20%	50V
C1827	1-163-809-11	CERAMIC CHIP	0 047MF	10%	25V
C1828	1-163-809-11	CERAMIC CHIP	0 047MF	10%	25V
C1829	1-163-809-11	CERAMIC CHIP	0 047MF	10%	25V
C1830	1-163-809-11	CERAMIC CHIP	0 047MF	10%	25V
C1831	1-104-661-91	ELECT	330MF	20%	16V
C1832	1-104-661-91	ELECT	330MF	20%	16V
C1833	1-163-809-11	CERAMIC CHIP	0 047MF	10%	25V

REF NO.	PART NO	DESCRIPTION			REMARK
C1834	1-163-809-11	CERAMIC CHIP	0 047MF	10%	25V
C1835	1-163-809-11	CERAMIC CHIP	0 047MF	10%	25V
C1836	1-163-809-11	CERAMIC CHIP	0 047MF	10%	25V
C1837	1-164-489-11	CERAMIC CHIP	0 22MF	10%	16V
C1838	1-126-968-11	ELECT	100MF	20%	50V
C1839	1-126-968-11	ELECT	100MF	20%	50V
C1840	1-124-903-11	ELECT	1MF	20%	50V
C1841	1-126-967-11	ELECT	47MF	20%	50V
C1842	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1843	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1844	1-126-967-11	ELECT	47MF	20%	50V
C1845	1-163-809-11	CERAMIC CHIP	0 047MF	10%	25V
C1846	1-163-809-11	CERAMIC CHIP	0 047MF	10%	25V
C1847	1-163-809-11	CERAMIC CHIP	0 047MF	10%	25V
C1848	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C1849	1-126-968-11	ELECT	100MF	20%	50V
C1850	1-126-968-11	ELECT	100MF	20%	50V
C1851	1-137-399-11	FILM	0 1MF	5%	50V
C1852	1-126-968-11	ELECT	100MF	20%	50V
C1853	1-137-378-11	FILM	0 22MF	5%	50V
C1854	1-126-963-11	ELECT	4 7MF	20%	50V
C1855	1-124-903-11	ELECT	1MF	20%	50V
C1856	1-104-665-11	ELECT	100MF	20%	25V
C1857	1-126-968-11	ELECT	100MF	20%	50V
C1858	1-163-809-11	CERAMIC CHIP	0 047MF	10%	25V
C1859	1-163-809-11	CERAMIC CHIP	0 047MF	10%	25V
C1860	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C1861	1-126-968-11	ELECT	100MF	20%	50V
C1862	1-124-903-11	ELECT	1MF	20%	50V
C1863	1-136-173-00	FILM	0 47MF	5%	50V
C1864	1-124-903-11	ELECT	1MF	20%	50V
C1865	1-124-903-11	ELECT	1MF	20%	50V
C1866	1-126-967-11	ELECT	47MF	20%	50V

<CHIP CONDUCTOR>

CJ1	1-216-295-91	CONDUCTOR, CHIP
CJ2	1-216-295-91	CONDUCTOR, CHIP
CJ3	1-216-295-91	CONDUCTOR, CHIP
CJ4	1-216-295-91	CONDUCTOR, CHIP
CJ5	1-216-295-91	CONDUCTOR, CHIP
CJ6	1-216-295-91	CONDUCTOR, CHIP
CJ7	1-216-295-91	CONDUCTOR, CHIP
CJ8	1-216-295-91	CONDUCTOR, CHIP
CJ9	1-216-295-91	CONDUCTOR, CHIP
CJ10	1-216-295-91	CONDUCTOR, CHIP
CJ11	1-216-295-91	CONDUCTOR, CHIP
CJ12	1-216-295-91	CONDUCTOR, CHIP
CJ13	1-216-295-91	CONDUCTOR, CHIP
CJ14	1-216-295-91	CONDUCTOR, CHIP
CJ15	1-216-295-91	CONDUCTOR, CHIP
CJ16	1-216-295-91	CONDUCTOR, CHIP
CJ17	1-216-295-91	CONDUCTOR, CHIP
CJ18	1-216-295-91	CONDUCTOR, CHIP
CJ19	1-216-295-91	CONDUCTOR, CHIP
CJ20	1-216-295-91	CONDUCTOR, CHIP
CJ21	1-216-295-91	CONDUCTOR, CHIP
CJ22	1-216-295-91	CONDUCTOR, CHIP
CJ23	1-216-295-91	CONDUCTOR, CHIP
CJ24	1-216-295-91	CONDUCTOR, CHIP
CJ25	1-216-295-91	CONDUCTOR, CHIP
CJ26	1-216-295-91	CONDUCTOR, CHIP
CJ27	1-216-295-91	CONDUCTOR, CHIP
CJ28	1-216-295-91	CONDUCTOR, CHIP
CJ29	1-216-295-91	CONDUCTOR, CHIP
CJ30	1-216-295-91	CONDUCTOR, CHIP
CJ31	1-216-295-91	CONDUCTOR, CHIP
CJ32	1-216-295-91	CONDUCTOR, CHIP
CJ33	1-216-295-91	CONDUCTOR, CHIP

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The componants identified by shading and mark ⚠ are critical for safety Replace only with part number specified

REF. NO	PART NO	DESCRIPTION	REMARK
CJ34	1-216-295-91	CONDUCTOR, CHIP	
CJ35	1-216-295-91	CONDUCTOR, CHIP	
CJ36	1-216-295-91	CONDUCTOR, CHIP	
CJ37	1-216-295-91	CONDUCTOR, CHIP	
CJ38	1-216-295-91	CONDUCTOR, CHIP	
CJ39	1-216-295-91	CONDUCTOR, CHIP	
CJ40	1-216-295-91	CONDUCTOR, CHIP	
CJ42	1-216-295-91	CONDUCTOR, CHIP	
CJ43	1-216-295-91	CONDUCTOR, CHIP	
CJ44	1-216-295-91	CONDUCTOR, CHIP	
CJ45	1-216-295-91	CONDUCTOR, CHIP	
CJ46	1-216-295-91	CONDUCTOR, CHIP	
CJ47	1-216-295-91	CONDUCTOR, CHIP	
CJ48	1-216-295-91	CONDUCTOR, CHIP	
CJ49	1-216-295-91	CONDUCTOR, CHIP	
CJ50	1-216-295-91	CONDUCTOR, CHIP	
CJ51	1-216-295-91	CONDUCTOR, CHIP	
CJ52	1-216-295-91	CONDUCTOR, CHIP	
CJ53	1-216-295-91	CONDUCTOR, CHIP	
CJ54	1-216-295-91	CONDUCTOR, CHIP	
CJ56	1-216-295-91	CONDUCTOR, CHIP	
CJ57	1-216-295-91	CONDUCTOR, CHIP	
CJ58	1-216-295-91	CONDUCTOR, CHIP	
CJ59	1-216-295-91	CONDUCTOR, CHIP	
CJ60	1-216-295-91	CONDUCTOR, CHIP	
CJ62	1-216-295-91	CONDUCTOR, CHIP	
CJ63	1-216-295-91	CONDUCTOR, CHIP	
		<CONNECTOR>	
CN1509	* 1-564-506-11	PLUG, CONNECTOR 3P	
CN1513	* 1-564-506-11	PLUG, CONNECTOR 3P	
CN1612	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN1642	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN1672	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN1716	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN1756	* 1-564-508-11	PLUG, CONNECTOR 5P	
CN1757	* 1-564-516-11	PLUG, CONNECTOR 13P	
		<DIODE>	
D1501	8-719-908-03	DIODE GP08D	
D1502	8-719-109-89	DIODE RD5 6ESB2	
D1503	8-719-971-20	DIODE ERC38-06	
D1505	8-719-109-89	DIODE RD5 6ESB2	
D1551	8-719-983-14	DIODE MTZJ-T-77-3 9	
D1552	8-719-991-33	DIODE 1SS133T-77	
D1553	8-719-991-33	DIODE 1SS133T-77	
D1601	8-719-908-03	DIODE GP08D	
D1602	8-719-908-03	DIODE GP08D	
D1603	8-719-908-03	DIODE GP08D	
D1604	8-719-908-03	DIODE GP08D	
D1803	8-719-991-33	DIODE 1SS133T-77	
D1812	8-719-991-33	DIODE 1SS133T-77	
D1814	8-719-991-33	DIODE 1SS133T-77	
D1825	8-719-991-33	DIODE 1SS133T-77	
D1826	8-719-991-33	DIODE 1SS133T-77	
D1827	8-719-982-03	DIODE MTZJ-3 6A	
D1931	8-719-924-16	DIODE MTZJ-T-77-24	
D1932	8-719-924-16	DIODE MTZJ-T-77-24	
D1934	8-719-924-16	DIODE MTZJ-T-77-24	
D1935	8-719-924-16	DIODE MTZJ-T-77-24	
D1936	8-719-924-16	DIODE MTZJ-T-77-24	
D1937	8-719-924-16	DIODE MTZJ-T-77-24	
D1942	8-719-924-16	DIODE MTZJ-T-77-24	
D1945	8-719-924-16	DIODE MTZJ-T-77-24	
D1946	8-719-924-16	DIODE MTZJ-T-77-24	
D1947	8-719-924-16	DIODE MTZJ-T-77-24	
D1948	8-719-921-86	DIODE MTZJ-13	
D1949	8-719-924-16	DIODE MTZJ-T-77-24	
D1951	8-719-921-86	DIODE MTZJ-13	
D1953	8-719-921-86	DIODE MTZJ-13	
D1954	8-719-921-86	DIODE MTZJ-13	
		<FUSE>	
F1601	⚠ 1-532-745-11	FUSE, GLASS TUBE 3.15A/125V	
	1-533-223-11	CLIP, FUSE ; F1601	
F1602	⚠ 1-532-745-11	FUSE, GLASS TUBE 3.15A/125V	
	1-533-223-11	CLIP, FUSE ; F1602	
		<IC>	
IC1501	8-759-192-71	IC STV9379	
IC1601	8-749-010-88	IC STK392-010	
IC1602	8-749-010-88	IC STK392-010	
IC1701	8-752-861-57	IC CXP85112B-613S	
IC1702	8-759-041-54	IC MN1382S	
IC1801	8-759-327-52	IC PM0002B	
IC1802	8-759-327-51	IC PA0053B	
IC1803	8-759-012-67	IC MC7905CT	
IC1803	8-759-929-64	IC LM7905CT	
IC1804	8-759-231-53	IC TA7805S	
IC1804	8-759-231-53	IC TA7805S	
IC1805	8-759-327-52	IC PM0002B	
IC1806	8-759-327-51	IC PA0053B	
IC1807	8-759-929-65	IC LM7912CT	
IC1807	8-759-929-65	IC LM7912CT	
IC1808	8-759-279-76	IC MCT7812CT	
IC1808	8-759-231-58	IC TA7812S	
IC1809	8-759-327-52	IC PM0002B	
IC1931	8-759-711-28	IC NJM2058D	
IC1932	8-759-711-28	IC NJM2058D	
		<COIL>	
L1501	1-412-533-21	INDUCTOR 47UH	
L1502	1-412-533-21	INDUCTOR 47UH	
L1503	1-412-524-11	INDUCTOR 8 2UH	
L1515	1-410-470-11	INDUCTOR 10UH	
L1516	1-410-482-31	INDUCTOR 100UH	
L1701	1-410-470-11	INDUCTOR 10UH	
L1801	1-406-975-21	COIL, CHOKE 47UH	
L1802	1-406-975-21	COIL, CHOKE 47UH	
		<TRANSISTOR>	
Q1501	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1502	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1551	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1552	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1701	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1801	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1802	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1803	8-729-029-86	TRANSISTOR DTC124ESA	
Q1804	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1805	8-729-029-86	TRANSISTOR DTC124ESA	
		<RESISTOR>	
R1501	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R1502	1-208-814-11	METAL CHIP 22K 0 50% 1/10W	
R1504	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R1505	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R1506	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R1507	1-208-814-11	METAL CHIP 22K 0 50% 1/10W	
R1508	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R1509	⚠ 1-249-383-91	CARBON 1.5 5% 1/4W F	
R1510	1-214-671-11	METAL 3 9 1% 1/4W	

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REF. NO	PART NO	DESCRIPTION			REMARK
R1511	1-214-671-11	METAL	3 9	1%	1/4W
R1512	1-215-912-11	METAL OXIDE	150	5%	3W F
R1513	1-214-671-11	METAL	3 9	1%	1/4W
R1514	1-216-632-11	METAL CHIP	160	0 50%	1/10W
R1515	1-216-639-11	METAL CHIP	330	0 50%	1/10W
R1516	1-214-671-11	METAL	3 9	1%	1/4W
R1517	1-216-647-11	METAL CHIP	680	0 50%	1/10W
R1518	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W
R1519 ⚠	1-249-385-91	CARBON	2.2	5%	1/4W F
R1520 ⚠	1-249-385-91	CARBON	2.2	5%	1/4W F
R1521	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1522	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1523	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1551	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R1552	1-216-063-91	METAL GLAZE	3 9K	5%	1/10W
R1553	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R1554	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1559	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1562	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1603	1-216-663-11	METAL CHIP	3 3K	0 50%	1/10W
R1604	1-216-663-11	METAL CHIP	3 3K	0 50%	1/10W
R1605	1-216-663-11	METAL CHIP	3 3K	0 50%	1/10W
R1606	1-216-663-11	METAL CHIP	3 3K	0 50%	1/10W
R1607	1-216-663-11	METAL CHIP	3 3K	0 50%	1/10W
R1608	1-216-663-11	METAL CHIP	3 3K	0 50%	1/10W
R1610	1-214-729-00	METAL	1K	1%	1/4W
R1612	1-214-729-00	METAL	1K	1%	1/4W
R1613	1-214-673-00	METAL	4.7	1%	1/4W
R1615	1-214-673-00	METAL	4 7	1%	1/4W
R1616	1-214-673-00	METAL	4 7	1%	1/4W
R1618	1-214-673-00	METAL	4 7	1%	1/4W
R1619	1-214-673-00	METAL	4 7	1%	1/4W
R1620	1-214-673-00	METAL	4 7	1%	1/4W
R1621	1-214-673-00	METAL	4 7	1%	1/4W
R1622	1-214-673-00	METAL	4 7	1%	1/4W
R1623	1-214-729-00	METAL	1K	1%	1/4W
R1624	1-214-729-00	METAL	1K	1%	1/4W
R1625	1-214-673-00	METAL	4 7	1%	1/4W
R1626	1-214-673-00	METAL	4 7	1%	1/4W
R1627	1-214-673-00	METAL	4 7	1%	1/4W
R1628	1-214-673-00	METAL	4 7	1%	1/4W
R1629	1-214-673-00	METAL	4 7	1%	1/4W
R1630	1-214-673-00	METAL	4 7	1%	1/4W
R1631	1-214-729-00	METAL	1K	1%	1/4W
R1632	1-214-673-00	METAL	4 7	1%	1/4W
R1633	1-214-673-00	METAL	4 7	1%	1/4W
R1634	1-214-729-00	METAL	1K	1%	1/4W
R1635	1-214-673-00	METAL	4 7	1%	1/4W
R1636	1-214-673-00	METAL	4 7	1%	1/4W
R1637	1-214-673-00	METAL	4 7	1%	1/4W
R1638	1-214-673-00	METAL	4 7	1%	1/4W
R1639	1-214-673-00	METAL	4 7	1%	1/4W
R1640	1-214-673-00	METAL	4 7	1%	1/4W
R1641	1-214-673-00	METAL	4 7	1%	1/4W
R1642	1-214-673-00	METAL	4 7	1%	1/4W
R1717	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1721	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1737	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1740	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1748	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1749	1-216-295-91	CONDUCTOR, CHIP			
R1751	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R1752	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1753	1-216-295-91	CONDUCTOR, CHIP			
R1760	1-216-295-91	CONDUCTOR, CHIP			
R1788	1-208-806-11	METAL CHIP	10K	0 50%	1/10W
R1801	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1802	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1803	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1804	1-216-057-00	METAL GLAZE	2 2K	5%	1/10W
R1805	1-216-069-00	METAL GLAZE	6 8K	5%	1/10W
R1806	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R1807	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R1808	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1809	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R1810	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R1811	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R1812	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R1813	1-216-057-00	METAL GLAZE	2 2K	5%	1/10W
R1814	1-216-699-11	METAL CHIP	100K	0 50%	1/10W
R1815	1-216-697-91	METAL CHIP	82K	0 50%	1/10W
R1816	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R1817	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1818	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1819	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1820	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1821	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R1823	1-208-811-11	METAL CHIP	16K	0 50%	1/10W
R1824	1-216-685-11	METAL CHIP	27K	0 50%	1/10W
R1825	1-216-685-11	METAL CHIP	27K	0 50%	1/10W
R1826	1-216-685-11	METAL CHIP	27K	0 50%	1/10W
R1827	1-216-685-11	METAL CHIP	27K	0.50%	1/10W
R1828	1-216-685-11	METAL CHIP	27K	0 50%	1/10W
R1829	1-216-685-11	METAL CHIP	27K	0 50%	1/10W
R1830	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1831	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1832	1-216-677-11	METAL CHIP	12K	0 50%	1/10W
R1833	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1834	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1835	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1836	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R1837	1-208-806-11	METAL CHIP	10K	0 50%	1/10W
R1838	1-216-667-11	METAL CHIP	4 7K	0 50%	1/10W
R1839	1-216-031-00	METAL GLAZE	180	5%	1/10W
R1840	1-208-806-11	METAL CHIP	10K	0 50%	1/10W
R1841	1-208-806-11	METAL CHIP	10K	0 50%	1/10W
R1842	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1843	1-216-667-11	METAL CHIP	4 7K	0 50%	1/10W
R1844	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1845	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R1846	1-216-125-00	METAL GLAZE	1 5M	5%	1/10W
R1847	1-208-806-11	METAL CHIP	10K	0 50%	1/10W
R1848	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R1849	1-216-067-00	METAL GLAZE	5 6K	5%	1/10W
R1850	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R1851	1-216-043-91	METAL GLAZE	560	5%	1/10W
R1852	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R1853	1-216-057-00	METAL GLAZE	2 2K	5%	1/10W
R1854	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1855	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R1856	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1857	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1858	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R1859	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1860	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1861	1-216-473-11	METAL OXIDE	56	5%	3W F
R1862	1-216-473-11	METAL OXIDE	56	5%	3W F
R1863	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1864	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1865	1-216-473-11	METAL OXIDE	56	5%	3W F
R1866	1-216-473-11	METAL OXIDE	56	5%	3W F
R1868	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1869	1-216-685-11	METAL CHIP	27K	0 50%	1/10W
R1870	1-216-685-11	METAL CHIP	27K	0 50%	1/10W
R1871	1-216-685-11	METAL CHIP	27K	0 50%	1/10W
R1872	1-216-685-11	METAL CHIP	27K	0 50%	1/10W

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REF NO	PART NO	DESCRIPTION			REMARK
R1873	1-216-685-11	METAL CHIP	27K	0 50%	1/10W
R1874	1-216-685-11	METAL CHIP	27K	0 50%	1/10W
R1875	1-208-824-11	METAL CHIP	56K	0.50%	1/10W
R1876	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1877	1-208-810-11	METAL CHIP	15K	0 50%	1/10W
R1878	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R1879	1-216-685-11	METAL CHIP	27K	0 50%	1/10W
R1880	1-218-768-11	METAL CHIP	470K	0 50%	1/10W
R1881	1-216-295-91	CONDUCTOR, CHIP			
R1883	1-216-677-11	METAL CHIP	12K	0 50%	1/10W
R1884	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R1885	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1886	1-216-031-00	METAL GLAZE	180	5%	1/10W
R1887	1-208-806-11	METAL CHIP	10K	0 50%	1/10W
R1888	1-216-667-11	METAL CHIP	4 7K	0 50%	1/10W
R1889	1-216-667-11	METAL CHIP	4.7K	0 50%	1/10W
R1890	1-216-125-00	METAL GLAZE	1 5M	5%	1/10W
R1891	1-208-806-11	METAL CHIP	10K	0 50%	1/10W
R1892	1-216-061-00	METAL GLAZE	3 3K	5%	1/10W
R1893	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R1894	⚠ 1-249-389-91	CARBON	4.7	5%	1/4W F
R1895	1-216-043-91	METAL GLAZE	560	5%	1/10W
R1896	⚠ 1-249-389-91	CARBON	4.7	5%	1/4W F
R1897	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R1898	1-216-057-00	METAL GLAZE	2 2K	5%	1/10W
R1899	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R1900	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1901	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1902	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1903	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1904	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1905	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R1907	1-208-810-11	METAL CHIP	15K	0 50%	1/10W
R1908	1-208-814-11	METAL CHIP	22K	0 50%	1/10W
R1909	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1910	1-216-685-11	METAL CHIP	27K	0 50%	1/10W
R1911	1-216-685-11	METAL CHIP	27K	0 50%	1/10W
R1912	1-216-685-11	METAL CHIP	27K	0 50%	1/10W
R1913	1-216-685-11	METAL CHIP	27K	0 50%	1/10W
R1914	1-216-685-11	METAL CHIP	27K	0 50%	1/10W
R1915	1-216-685-11	METAL CHIP	27K	0 50%	1/10W
R1916	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1917	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R1918	1-216-667-11	METAL CHIP	4 7K	0.50%	1/10W
R1919	1-208-822-11	METAL CHIP	47K	0 50%	1/10W
R1920	1-216-667-11	METAL CHIP	4 7K	0 50%	1/10W
R1923	1-216-677-11	METAL CHIP	12K	0 50%	1/10W
R1925	1-216-031-00	METAL GLAZE	180	5%	1/10W
R1926	1-208-806-11	METAL CHIP	10K	0 50%	1/10W
R1927	1-216-125-00	METAL GLAZE	1 5M	5%	1/10W
R1928	1-208-806-11	METAL CHIP	10K	0 50%	1/10W
R1931	1-216-698-11	METAL CHIP	91K	0 50%	1/10W
R1935	1-218-766-11	METAL CHIP	390K	0 50%	1/10W
R1937	1-208-806-11	METAL CHIP	10K	0 50%	1/10W
R1938	1-208-810-11	METAL CHIP	15K	0 50%	1/10W
R1940	1-208-812-11	METAL CHIP	18K	0 50%	1/10W
R1941	1-208-806-11	METAL CHIP	10K	0 50%	1/10W
R1942	1-208-806-11	METAL CHIP	10K	0 50%	1/10W
R1943	1-216-699-11	METAL CHIP	100K	0 50%	1/10W
R1944	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R1947	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1948	1-216-093-00	METAL GLAZE	68K	5%	1/10W
R1949	1-216-659-11	METAL CHIP	2 2K	0 50%	1/10W
R1950	1-216-659-11	METAL CHIP	2 2K	0 50%	1/10W
R1951	1-208-806-11	METAL CHIP	10K	0 50%	1/10W
R1952	1-208-806-11	METAL CHIP	10K	0 50%	1/10W
R1954	1-208-806-11	METAL CHIP	10K	0 50%	1/10W
R1955	1-208-806-11	METAL CHIP	10K	0 50%	1/10W
R1956	1-208-800-11	METAL CHIP	5 6K	0.50%	1/10W
R1957	1-208-824-11	METAL CHIP	56K	0.50%	1/10W
R1958	1-208-800-11	METAL CHIP	5.6K	0.50%	1/10W
R1959	1-208-824-11	METAL CHIP	56K	0 50%	1/10W
R1960	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R1961	1-208-806-11	METAL CHIP	10K	0 50%	1/10W
R1962	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R1963	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1964	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1965	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1966	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1967	1-216-071-00	METAL GLAZE	8 2K	5%	1/10W
R1970	1-208-774-11	METAL CHIP	470	0 50%	1/10W
R1971	1-216-667-11	METAL CHIP	4 7K	0 50%	1/10W
R1972	1-216-111-91	METAL GLAZE	390K	5%	1/10W
R1981	1-216-473-11	METAL OXIDE	56	5%	3W F
R1982	1-216-473-11	METAL OXIDE	56	5%	3W F
R1983	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R1984	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R1985	1-216-025-91	METAL GLAZE	100	5%	1/10W

<THERMISTOR>

TH1501	1-807-925-11	THERMISTOR
TH1801	1-808-269-11	THERMISTOR

<CRYSTAL>

X1701	1-579-917-11	VIBRATOR, CRYSTAL

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* A-1372-099-A HA BOARD, COMPLETE
****

<CAPACITOR>

C1301	1-126-964-11	ELECT	10MF	20%	50V
C1304	1-126-964-11	ELECT	10MF	20%	50V

<CONNECTOR>

CN1346	1-564-524-11	PLUG, CONNECTOR 9P
CN1347	* 1-564-521-11	PLUG, CONNECTOR 6P

<DIODE>

D1304	8-719-053-43	DIODE SLR-325VCT31
D1305	8-719-053-43	DIODE SLR-325VCT31

<IC>

IC1301	8-741-780-51	IC SBX1780-51

<JACK>

J1301	1-750-517-11	JACK BLOCK, PIN 3P

<RESISTOR>

R1302	1-249-416-11	CARBON	820	5%	1/4W
R1303	1-249-417-11	CARBON	1K	5%	1/4W
R1304	1-249-425-11	CARBON	4 7K	5%	1/4W
R1305	1-249-411-11	CARBON	330	5%	1/4W
R1306	1-249-411-11	CARBON	330	5%	1/4W
R1307	1-249-420-11	CARBON	1 8K	5%	1/4W
R1308	1-247-895-91	CARBON	470K	5%	1/4W

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REF. NO.	PART NO.	DESCRIPTION			REMARK
R1309	1-247-895-91	CARBON	470K	5%	1/4W
R1310	1-249-429-11	CARBON	10K	5%	1/4W
R1311	1-247-815-91	CARBON	220	5%	1/4W
R1312	1-247-804-11	CARBON	75	5%	1/4W
R1314	1-247-807-31	CARBON	100	5%	1/4W
		<SWITCH>			
S1301	1-571-731-11	SWITCH, TACTIL			
S1302	1-571-731-11	SWITCH, TACTIL			
S1303	1-571-731-11	SWITCH, TACTIL			
S1304	1-571-731-11	SWITCH, TACTIL			
S1305	1-571-731-11	SWITCH, TACTIL			
S1306	1-571-731-11	SWITCH, TACTIL			
S1307	1-571-731-11	SWITCH, TACTIL			
**********					
	* A-1373-511-A	U BOARD, COMPLETE (KP-46S17/53S17)			
		**********			
	* A-1373-562-A	U BOARD, COMPLETE			
		**********			
					(KP-41T25/46S25/53S25)
		<CAPACITOR>			
C1101	1-126-965-11	ELECT	22MF	20%	50V
C1102	1-124-903-11	ELECT	1MF	20%	50V
C1103	1-124-903-11	ELECT	1MF	20%	50V
C1104	1-163-031-11	CERAMIC CHIP	0 01MF		50V
C1105	1-126-965-11	ELECT	22MF	20%	50V
C1106	1-126-965-11	ELECT	22MF	20%	50V
C1107	1-124-903-11	ELECT	1MF	20%	50V
C1108	1-124-903-11	ELECT	1MF	20%	50V
C1109	1-126-965-11	ELECT	22MF	20%	50V
C1110	1-124-903-11	ELECT	1MF	20%	50V
C1111	1-124-903-11	ELECT	1MF	20%	50V
C1121	1-126-935-11	ELECT	470MF	20%	16V
C1122	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C1123	1-124-903-11	ELECT	1MF	20%	50V
C1124	1-126-965-11	ELECT	22MF	20%	50V
C1125	1-124-903-11	ELECT	1MF	20%	50V
C1126	1-104-665-11	ELECT	100MF	20%	25V
C1127	1-104-663-11	ELECT	33MF	20%	25V
C1128	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C1129	1-126-965-11	ELECT	22MF	20%	50V
					(KP-41T25/46S25/53S25)
C1130	1-109-889-11	ELECT	1MF	20%	50V
					(KP-41T25/46S25/53S25)
C1131	1-109-889-11	ELECT	1MF	20%	50V
					(KP-41T25/46S25/53S25)
C1132	1-124-902-00	ELECT	0 47MF	20%	50V
C1133	1-126-965-11	ELECT	22MF	20%	50V
C1134	1-104-665-11	ELECT	100MF	20%	25V
C1136	1-126-965-11	ELECT	22MF	20%	50V
C1137	1-164-232-11	CERAMIC CHIP	0 01MF	10%	50V
C1138	1-124-902-00	ELECT	0 47MF	20%	50V
C1139	1-126-964-11	ELECT	10MF	20%	50V
C1145	1-126-934-11	ELECT	220MF	20%	16V
C1146	1-124-902-00	ELECT	0 47MF	20%	50V
C1147	1-124-902-00	ELECT	0 47MF	20%	50V
C1148	1-124-902-00	ELECT	0 47MF	20%	50V
C1149	1-124-902-00	ELECT	0 47MF	20%	50V
C1150	1-126-934-11	ELECT	220MF	20%	16V
C1151	1-126-934-11	ELECT	220MF	20%	16V
C1152	1-126-934-11	ELECT	220MF	20%	16V
C1153	1-104-665-11	ELECT	100MF	20%	25V

REF NO	PART NO	DESCRIPTION	REMARK
		<CHIP CONDUCTOR>	
CJ1101	1-216-295-91	CONDUCTOR, CHIP	
		<FILTER BLOCK>	
CM1101	1-473-595-11	COMB FILTER BLOCK	
		<CONNECTOR>	
CN1147	* 1-564-509-11	PLUG, CONNECTOR 6P	
CN1150	1-573-300-21	CONNECTOR, BOARD TO BOARD 18P	
CN1155	* 1-565-928-11	CONNECTOR (TUB) 30P	
CN1156	* 1-566-641-11	CONNECTOR, HINGE (TAB) 18P	
		<DIODE>	
D1101	8-719-110-17	DIODE RD10ESB2	
D1102	8-719-110-17	DIODE RD10ESB2	
D1103	8-719-110-17	DIODE RD10ESB2	
D1104	8-719-110-17	DIODE RD10ESB2	
D1105	8-719-110-17	DIODE RD10ESB2	
D1106	8-719-110-17	DIODE RD10ESB2	
D1107	8-719-110-17	DIODE RD10ESB2	
D1108	8-719-110-17	DIODE RD10ESB2	
D1109	8-719-110-17	DIODE RD10ESB2	
D1111	8-719-110-17	DIODE RD10ESB2	
D1112	8-719-110-17	DIODE RD10ESB2	
D1113	8-719-110-17	DIODE RD10ESB2	
D1114	8-719-110-17	DIODE RD10ESB2	
D1115	8-719-110-17	DIODE RD10ESB2	
D1120	8-719-110-17	DIODE RD10ESB2	
D1121	8-719-921-86	DIODE MTZJ-13	
D1122	8-719-921-86	DIODE MTZJ-13	
D1123	8-719-921-86	DIODE MTZJ-13	
D1124	8-719-921-86	DIODE MTZJ-13	
D1125	8-719-109-84	DIODE RD5 1ESB1	
D1126	8-719-110-17	DIODE RD10ESB2	
D1127	8-719-110-17	DIODE RD10ESB2	
D1135	8-719-991-33	DIODE 1SS133T-77	
		<IC>	
IC1101	8-752-068-46	IC CXA1855S	
IC1102	8-759-701-59	IC NJM78M09FA	
IC1102	8-759-701-59	IC NJM78M09FA	
		<JACK>	
J1101	1-750-515-11	TERMINAL BLOCK, S 3P	
J1102	1-750-517-11	JACK BLOCK, PIN 3P	
J1104	1-750-517-11	JACK BLOCK, PIN 3P	
J1105	1-750-516-11	JACK BLOCK, PIN 2P	
J1106	1-563-760-11	JACK, MINIATUER (DIA 3 5)	
J1107	1-563-760-11	JACK, MINIATUER (DIA 3 5)	
		<COIL>	
L1101	1-410-476-11	INDUCTOR 33UH	
L1104	1-410-473-11	INDUCTOR 18UH	
L1105	1-410-494-11	INDUCTOR 1mH	
		<TRANSISTOR>	
Q1102	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1103	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1104	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1105	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1106	8-729-216-22	TRANSISTOR 2SA1162-G	

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REF NO	PART NO	DESCRIPTION			REMARK
Q1107	8-729-422-27	TRANSISTOR 2SD601A-Q			(KP-41T25/46S25/53S25)
Q1108	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q1109	8-729-216-22	TRANSISTOR 2SA1162-G			
Q1110	8-729-216-22	TRANSISTOR 2SA1162-G			
Q1111	8-729-216-22	TRANSISTOR 2SA1162-G			
Q1112	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q1113	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q1114	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q1115	8-729-422-27	TRANSISTOR 2SD601A-Q			
		<RESISTOR>			
R1101	1-216-065-00	METAL GLAZE	4 7K	5%	1/10W
R1102	1-216-065-00	METAL GLAZE	4 7K	5%	1/10W
R1103	1-247-804-11	CARBON	75	5%	1/4W
R1104	1-216-065-00	METAL GLAZE	4 7K	5%	1/10W
R1105	1-247-804-11	CARBON	75	5%	1/4W
R1106	1-247-804-11	CARBON	75	5%	1/4W
R1107	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R1108	1-216-065-00	METAL GLAZE	4 7K	5%	1/10W
R1109	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R1110	1-216-065-00	METAL GLAZE	4 7K	5%	1/10W
R1111	1-216-065-00	METAL GLAZE	4 7K	5%	1/10W
R1112	1-216-065-00	METAL GLAZE	4 7K	5%	1/10W
R1113	1-247-804-11	CARBON	75	5%	1/4W
R1114	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R1115	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R1116	1-216-095-00	METAL GLAZE	82K	5%	1/10W
R1117	1-216-095-00	METAL GLAZE	82K	5%	1/10W
R1118	1-216-095-00	METAL GLAZE	82K	5%	1/10W
R1119	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1120	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1127	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1129	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1130	1-216-067-00	METAL GLAZE	5 6K	5%	1/10W
R1132	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1133	1-216-067-00	METAL GLAZE	5 6K	5%	1/10W
R1134	1-216-065-00	METAL GLAZE	4 7K	5%	1/10W
R1135	1-216-065-00	METAL GLAZE	4 7K	5%	1/10W (KP-41T25/46S25/53S25)
R1137	1-216-025-91	METAL GLAZE	100	5%	1/10W (KP-41T25/46S25/53S25)
R1138	1-216-065-00	METAL GLAZE	4 7K	5%	1/10W (KP-41T25/46S25/53S25)
R1140	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1141	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1142	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1145	1-216-051-00	METAL GLAZE	1 2K	5%	1/10W
R1146	1-216-051-00	METAL GLAZE	1 2K	5%	1/10W
R1149	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1150	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1151	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1152	1-216-043-91	METAL GLAZE	560	5%	1/10W
R1153	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1154	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1155	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1156	1-216-043-91	METAL GLAZE	560	5%	1/10W
R1157	1-216-045-00	METAL GLAZE	680	5%	1/10W
R1158	1-216-043-91	METAL GLAZE	560	5%	1/10W (KP-41T25/46S25/53S25)
R1159	1-216-045-00	METAL GLAZE	680	5%	1/10W (KP-41T25/46S25/53S25)
R1160	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1161	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1162	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1165	1-249-403-11	CARBON	68	5%	1/4W
R1166	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R1167	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R1168	1-216-113-00	METAL GLAZE	470K	5%	1/10W

REF NO	PART NO	DESCRIPTION			REMARK
R1169	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1170	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1171	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1172	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1173	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1174	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1175	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1176	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1178	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1179	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1180	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1181	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R1182	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R1183	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1184	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R1185	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1186	1-216-061-00	METAL GLAZE	3 3K	5%	1/10W
R1187	1-216-061-00	METAL GLAZE	3 3K	5%	1/10W
R1188	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R1190	1-216-295-91	CONDUCTOR, CHIP			
R1191	1-216-295-91	CONDUCTOR, CHIP			
R1192	1-216-295-91	CONDUCTOR, CHIP			
R1193	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1194	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1195	1-216-025-91	METAL GLAZE	100	5%	1/10W (KP-41T25/46S25/53S25)
R1196	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1197	1-216-041-00	METAL GLAZE	470	5%	1/10W

****

* A-1390-487-A ZR BOARD, COMPLETE (KP-41T25)
****

* A-1390-513-A ZR BOARD, COMPLETE
****
(KP-46S17/46S25/53S17/53S25)

4-382-854-11 SCREW (M3X10), P, SW (+)

<CAPACITOR>

C1403	1-102-978-00	CERAMIC	220PF	5%	50V (KP-41T25)
C1404	1-107-638-11	ELECT	33MF	20%	160V (KP-41T25)
C1405	1-104-665-11	ELECT	100MF	20%	25V (KP-41T25)
C1406	1-107-370-11	FILM	0 1MF	10%	200V (KP-41T25)
C1407	1-104-665-11	ELECT	100MF	20%	25V (KP-41T25)
C1408	1-107-362-11	FILM	0 0047MF	10%	200V (KP-41T25)
C1409	1-107-667-11	ELECT	2 2MF	20%	160V (KP-41T25)
C1410	1-107-362-11	FILM	0 0047MF	10%	200V (KP-41T25)
C1411	1-137-364-11	FILM	0 001MF	5%	50V (KP-41T25)
C1412	1-137-364-11	FILM	0 001MF	5%	50V (KP-41T25)
C1413	1-161-830-00	CERAMIC	0 0047MF		500V (KP-41T25)
C1414	1-104-661-91	ELECT	330MF	20%	16V (KP-41T25)
C1415	1-102-947-00	CERAMIC	10PF	0 5PF	50V (KP-41T25)
C1416	1-102-973-00	CERAMIC	100PF	5%	50V (KP-41T25)

ZR ZG ZB

The componants identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite
Ne les remplacer que par une piece portant le numero specifie

REF NO	PART NO.	DESCRIPTION	REMARK
		<CONNECTOR>	
CN1411	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
CN1412	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN1413	* 1-564-506-11	PLUG, CONNECTOR 3P	
CN1414	* 1-564-509-11	PLUG, CONNECTOR 6P (KP-41T25)	
CN1415	* 1-564-506-11	PLUG, CONNECTOR 3P	(KP-46S17/46S25/53S17/53S25)
CN1415	* 1-564-510-11	PLUG, CONNECTOR 7P (KP-41T25)	
CN1416	1-695-915-11	TAB (CONTACT) (KP-41T25)	
		<DIODE>	
D1401	8-719-921-86	DIODE MTZJ-13 (KP-41T25)	
D1402	8-719-921-86	DIODE MTZJ-13 (KP-41T25)	
		<TRANSISTOR>	
Q1401	8-729-017-06	TRANSISTOR 2SC4793 (KP-41T25)	
Q1402	8-729-017-05	TRANSISTOR 2SA1837 (KP-41T25)	
Q1403	8-729-140-96	TRANSISTOR 2SD774-34 (KP-41T25)	
		<RESISTOR>	
R1401	1-249-414-11	CARBON 560 5% 1/4W	
R1402	1-249-414-11	CARBON 560 5% 1/4W	
R1405	1-249-417-11	CARBON 1K 5% 1/4W	(KP-41T25)
R1406	1-216-479-11	METAL OXIDE 560 5% 3W F	(KP-41T25)
R1407	1-249-400-11	CARBON 39 5% 1/4W F	(KP-41T25)
R1408	1-249-384-11	CARBON 1 8 5% 1/4W F	(KP-41T25)
R1409	1-249-384-11	CARBON 1 8 5% 1/4W F	(KP-41T25)
R1410	1-247-734-11	CARBON 39 5% 1/2W F	(KP-41T25)
R1411	1-249-417-11	CARBON 1K 5% 1/4W F	(KP-41T25)
R1412	1-249-414-11	CARBON 560 5% 1/4W	(KP-41T25)
R1413	1-249-432-11	CARBON 18K 5% 1/4W	(KP-41T25)
R1414	1-249-432-11	CARBON 18K 5% 1/4W	(KP-41T25)
R1415	1-249-414-11	CARBON 560 5% 1/4W F	(KP-41T25)
R1416	1-216-451-11	METAL OXIDE 120 5% 2W F	(KP-41T25)
R1417	1-216-475-11	METAL OXIDE 120 5% 3W F	
R1418	1-249-377-11	CARBON 0 47 5% 1/4W F	(KP-41T25)
R1419	1-247-815-91	CARBON 220 5% 1/4W	(KP-41T25)
R1420	1-216-475-11	METAL OXIDE 120 5% 3W F	
R1421	1-249-417-11	CARBON 1K 5% 1/4W	(KP-41T25)

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* A-1390-489-A ZG BOARD, COMPLETE (KP-41T25)
****

* A-1390-512-A ZG BOARD, COMPLETE
****
(KP-46S17/46S25/53S17/53S25)

REF NO	PART NO.	DESCRIPTION	REMARK
		<CAPACITOR>	
C1433	1-102-973-00	CERAMIC 100PF 5% 50V	(KP-41T25)

REF NO	PART NO	DESCRIPTION	REMARK
		<CONNECTOR>	
CN1441	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
CN1442	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN1443	* 1-564-506-11	PLUG, CONNECTOR 3P	
CN1445	* 1-564-506-11	PLUG, CONNECTOR 3P	(KP-46S17/46S25/53S17/53S25)
CN1445	* 1-564-510-11	PLUG, CONNECTOR 7P (KP-41T25)	
		<RESISTOR>	
R1431	1-249-414-11	CARBON 560 5% 1/4W	
R1432	1-249-414-11	CARBON 560 5% 1/4W	
R1435	1-216-475-11	METAL OXIDE 120 5% 3W F	
R1436	1-216-475-11	METAL OXIDE 120 5% 3W F	
R1437	1-249-417-11	CARBON 1K 5% 1/4W	(KP-41T25)

****

* A-1390-491-A ZB BOARD, COMPLETE
****

REF NO	PART NO	DESCRIPTION	REMARK
		<CONNECTOR>	
CN1471	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
CN1472	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN1473	* 1-564-506-11	PLUG, CONNECTOR 3P	
		<RESISTOR>	
R1461	1-249-414-11	CARBON 560 5% 1/4W	
R1462	1-249-414-11	CARBON 560 5% 1/4W	
R1465	1-216-475-11	METAL OXIDE 120 5% 3W F	
R1466	1-216-475-11	METAL OXIDE 120 5% 3W F	

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MISCELLANEOUS
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⚠	1-223-925-21	RESISTOR ASSY (HIGH-VOLTAGE)	
	1-417-178-11	SELECTOR, ANTENA (AS-2)	(KP-46S17/46S25/53S17/53S25)
	1-504-785-11	SPEAKER (10CM)	
	1-556-945-21	CABLE, P-P	
	1-557-056-41	CABLE, P-P	
	1-561-306-00	JACK, PIN (F) (KP-46S17/53S17)	
⚠	1-769-837-11	CORD, POWER(WITH NOISE FILTER)	(7.0A/125V)
⚠	1-900-211-34	LEAD ASSY, HV	
⚠	8-451-463-11	DEFLECTION YOKE (Y829PA2N)	
⚠	8-451-463-21	DEFLECTION YOKE (Y829PA2N2)	
⚠	8-598-955-00	BLOCK ASSY, HIGH-VOLTAGE	
⚠	8-736-075-05	PICTURE TUBE 07MAC2(G)	
⚠	8-736-076-15	PICTURE TUBE 07MAC2 (B)	(KP-41T25/46S17/46S25)
⚠	8-736-076-25	PICTURE TUBE 07MAC3(B)	(KP-53S17/53S25)
⚠	8-736-077-15	PITURE TUBE 07MAC2 (R)	(KP-41T25/46S17/46S25)
⚠	8-736-077-25	PICTURE TUBE 07MAC3(R)	(KP-53S17/53S25)

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REF. NO	PART NO.	DESCRIPTION	REMARK
		ACCESSORIES AND PACKING MATERIALS	
		**********	
	3-701-627-00	BAG, POLYETHYLENE	
	3-856-232-11	MANUAL, INSTRUCTION (KP-46S25/53S25)	
	3-856-233-11	MANUAL, INSTRUCTION (KP-41T25/46S17/53S17)	
	3-856-233-21	MANUAL, INSTRUCTION (Canadian model)	
	* 4-037-674-01	BOARD, TOP (KP-46S17/46S25)	
	* 4-041-423-01	SHEET, PROTECTION (KP-41T25/46S17/46S25)	
	* 4-041-425-01	BAG, PROTECTION (KP-46S17/46S25)	
	* 4-041-426-01	BAG, PROTECTION (KP-53S17/53S25)	
	* 4-042-463-01	SHEET, PROTECTION (KP-53S17/53S25)	
	* 4-047-774-01	PLATE, TOP (KP-53S17/53S25)	
	* 4-047-775-01	PLATE, BOTTOM (KP-53S17/53S25)	
	* 4-047-776-01	TRAY (KP-53S17/53S25)	
	* 4-047-777-01	INDIVIDUAL CARTON (KP-53S17/53S25)	
	* 4-047-778-01	CUSHION (UPPER) (ASSY) (KP-53S17/53S25)	
	* 4-047-779-01	CUSHION (LOWER) (ASSY) (KP-53S17/53S25)	
	* 4-048-101-01	INDIVIDUAL CARTON (KP-46S17/46S25)	
	* 4-048-102-01	TRAY (KP-46S17/46S25)	
	* 4-048-103-01	BOARD, BOTTOM (KP-46S17/46S25)	
	* 4-048-104-01	CUSHION (UPPER) (ASSY) (KP-46S17/46S25)	

REF NO	PART NO	DESCRIPTION	REMARK
	* 4-048-105-01	CUSHION (LOWER) (ASSY) (KP-46S17/46S25)	
	* 4-048-579-01	CUSHION (UPPER) (ASSY) (KP-41T25)	
	* 4-048-580-01	CUSHION (LOWER) (ASSY) (KP-41T25)	
	* 4-048-581-01	TRAY (KP-41T25)	
	* 4-048-582-01	INDIVIDUAL CARTON (KP-41T25)	
	* 4-049-155-01	BAG, PROTECTION (KP-41T25)	
	4-050-330-01	LID, SPEAKER GRILLE (KP-46S17/46S25/53S17/53S25)	
	* 4-051-491-01	BLOCK, FOAM (KP-53S17/53S25)	
		REMOTE COMMANDER	
		**********	
	1-467-059-21	REMOTE COMMANDER (RM-Y118) (KP-46S25/53S25)	
	9-903-826-01	POCKET, COVER (FOR RM-Y118) (KP-46S25/53S25)	
	1-467-621-11	REMOTE COMMANDER (RM-Y121) (KP-41T25/46S17/53S17)	
	9-903-826-01	POCKET, COVER (FOR RM-Y121) (KP-41T25/46S17/53S17)	

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